

Fig. 1A

Fig. 1B

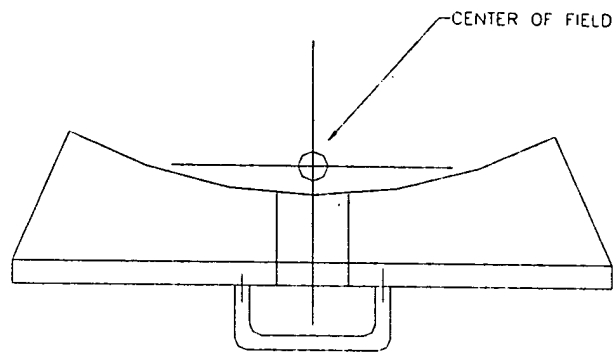


Fig. 1C

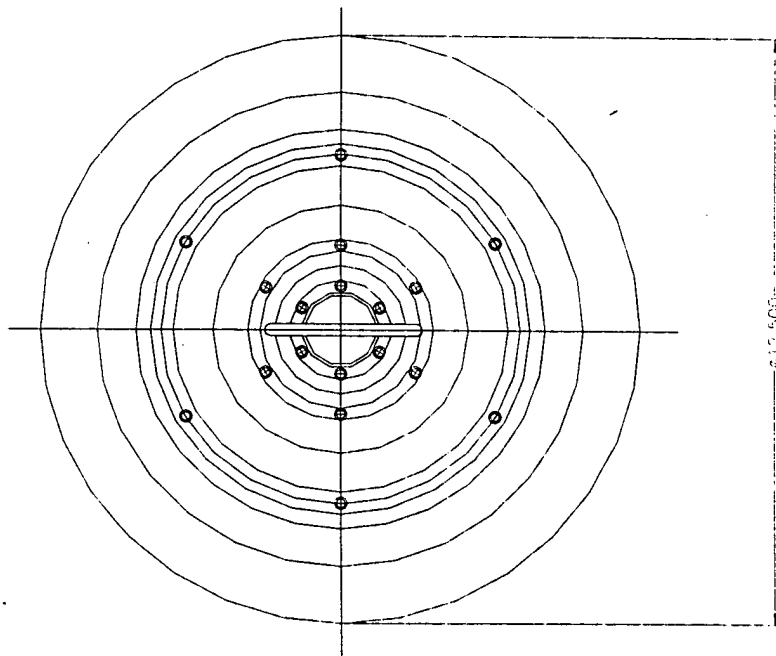
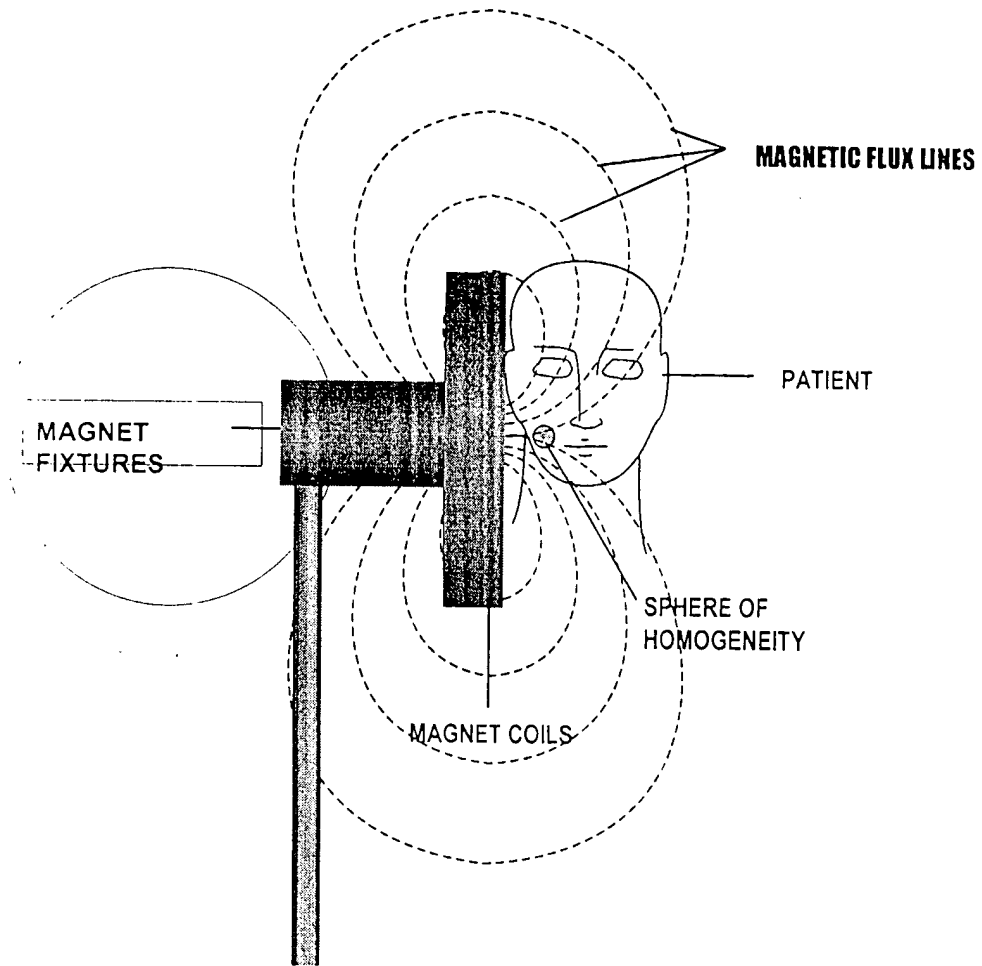


Fig. 2



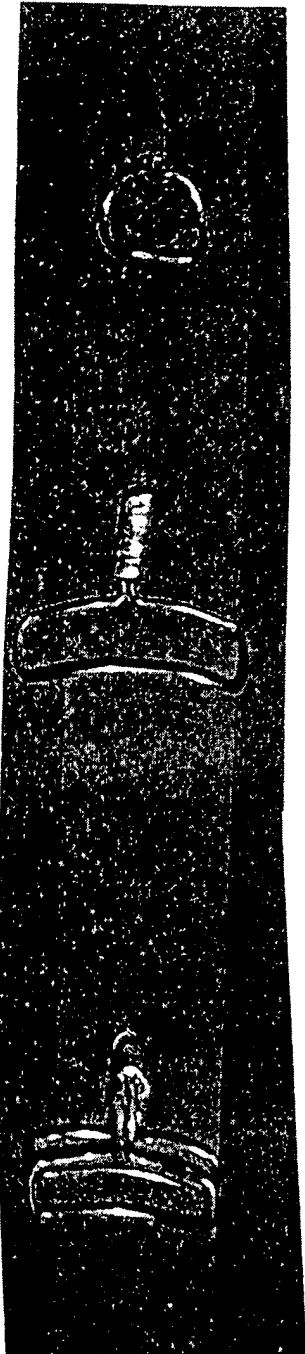


Fig. 3A

Fig. 3B

Fig. 3C



Fig. 3D

Fig. 3E

Fig. 4

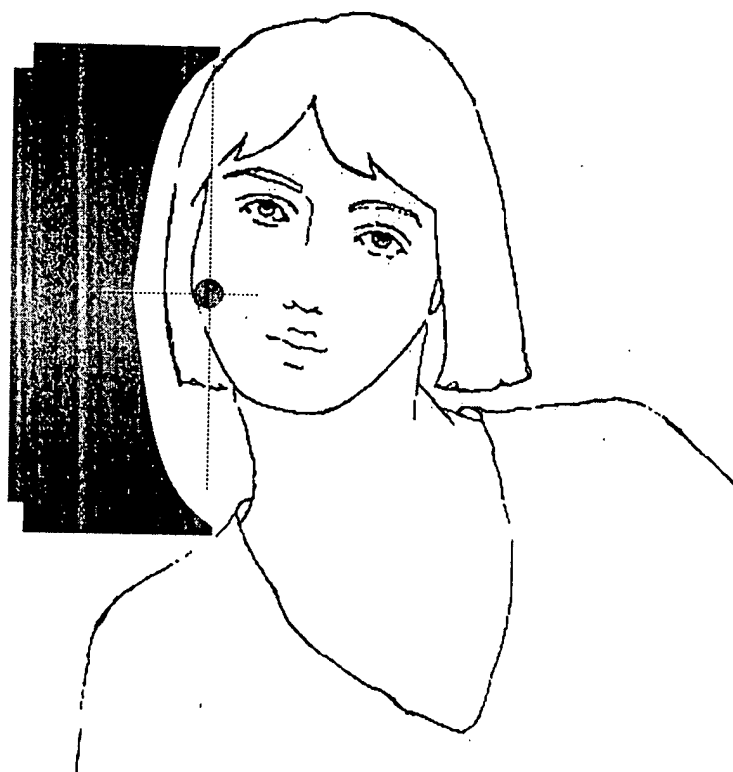


Fig. 5A

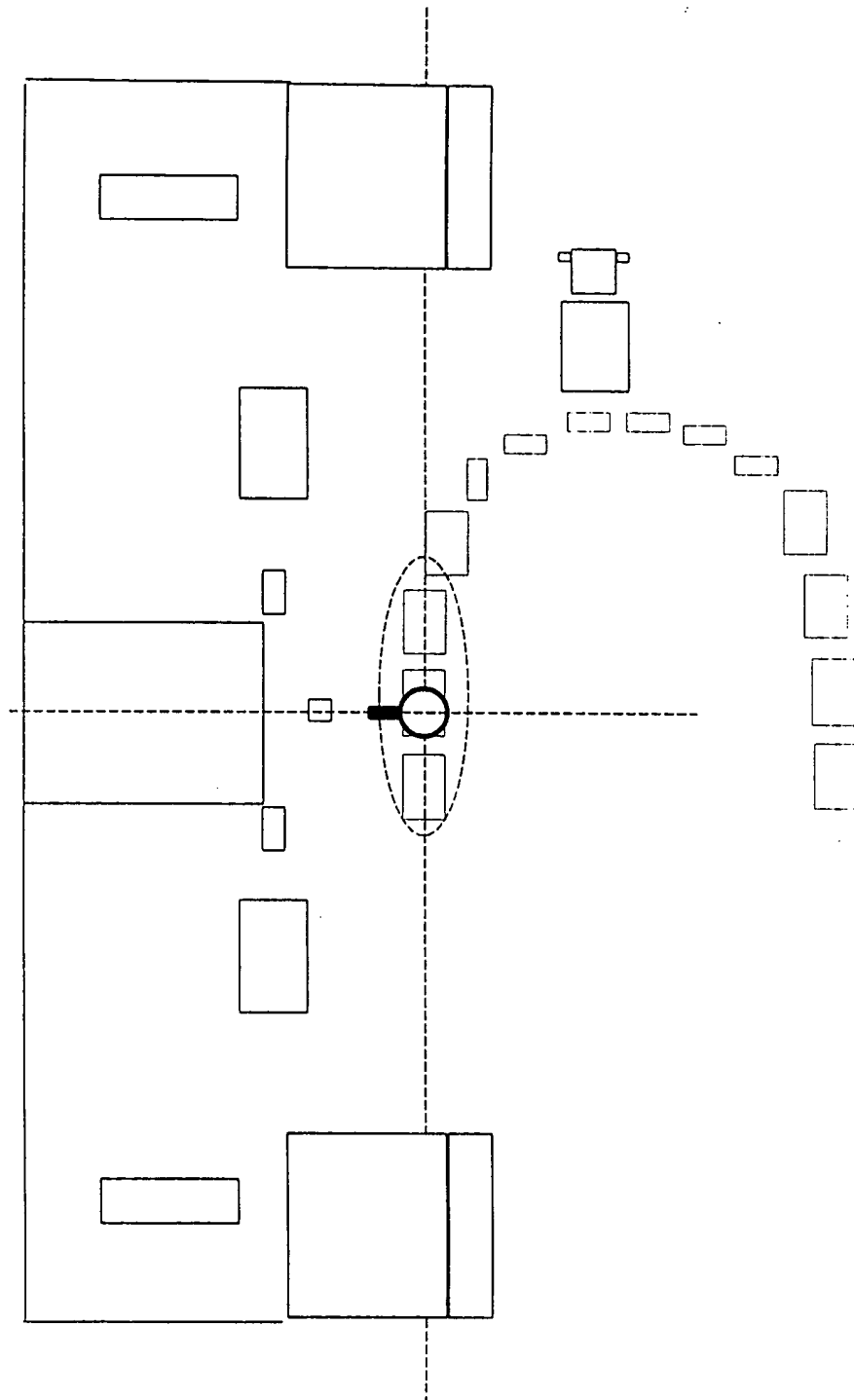
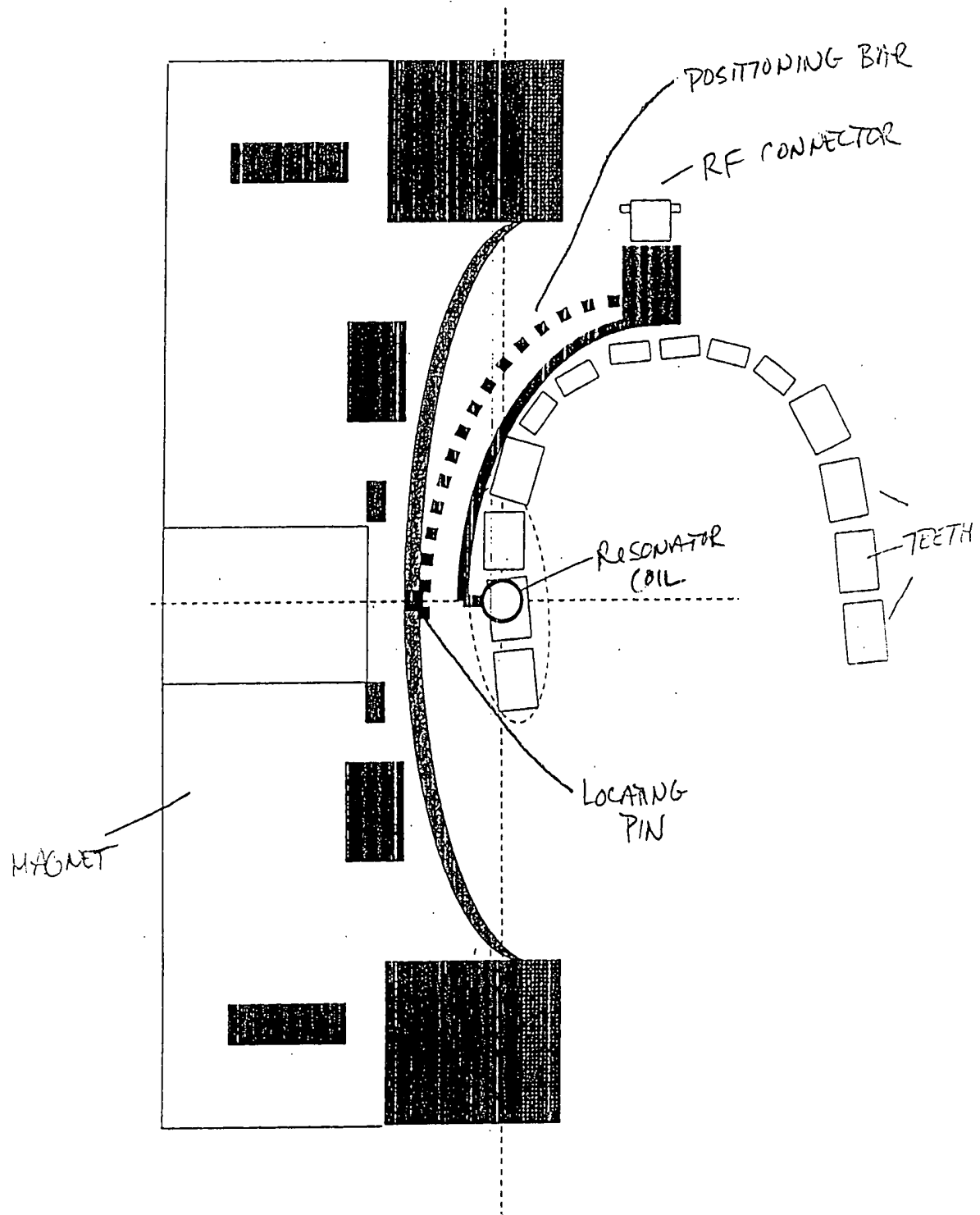


Fig. 5B



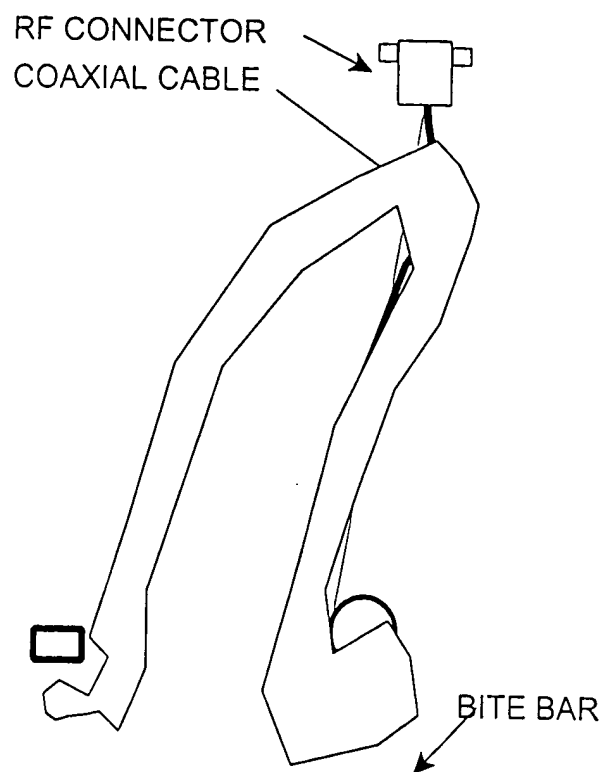


Fig. 6A

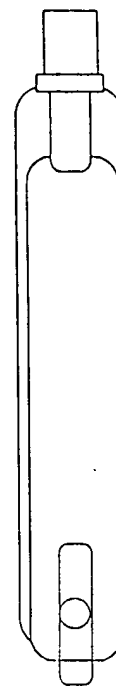


Fig. 6B

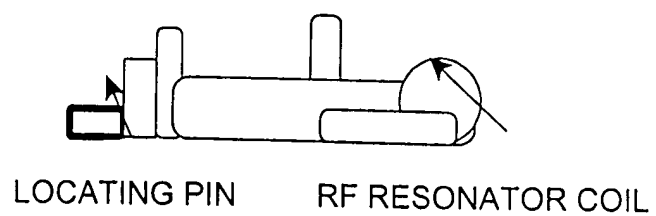


Fig. 6C



Fig. 7A

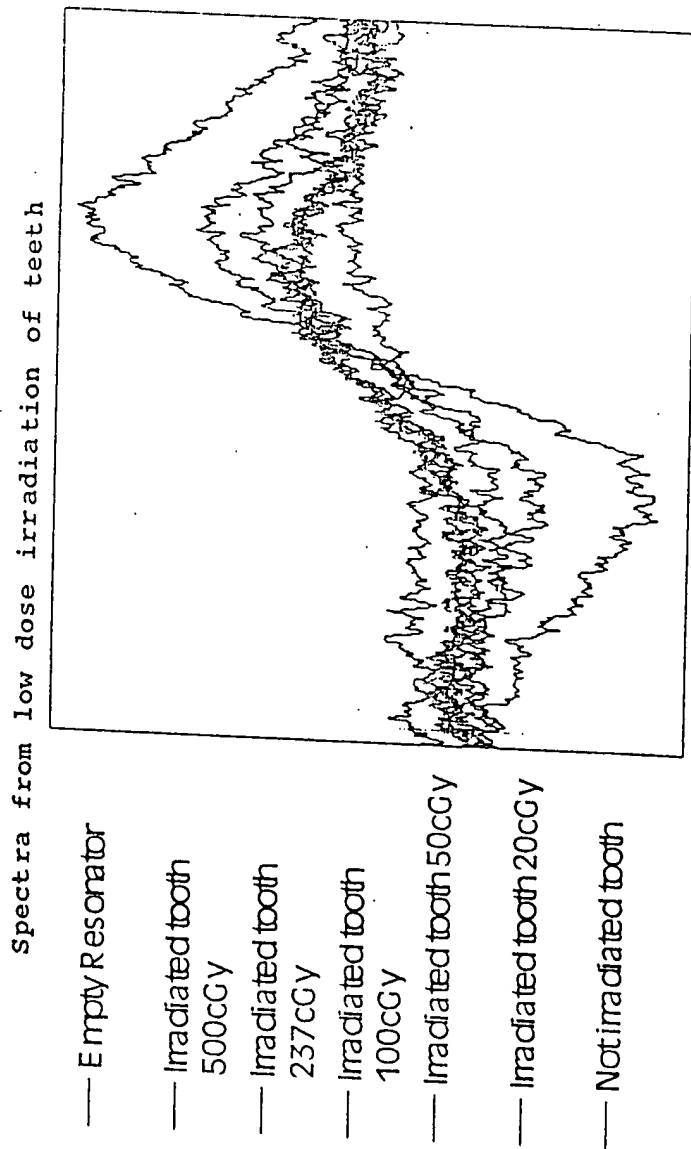


Fig. 7B

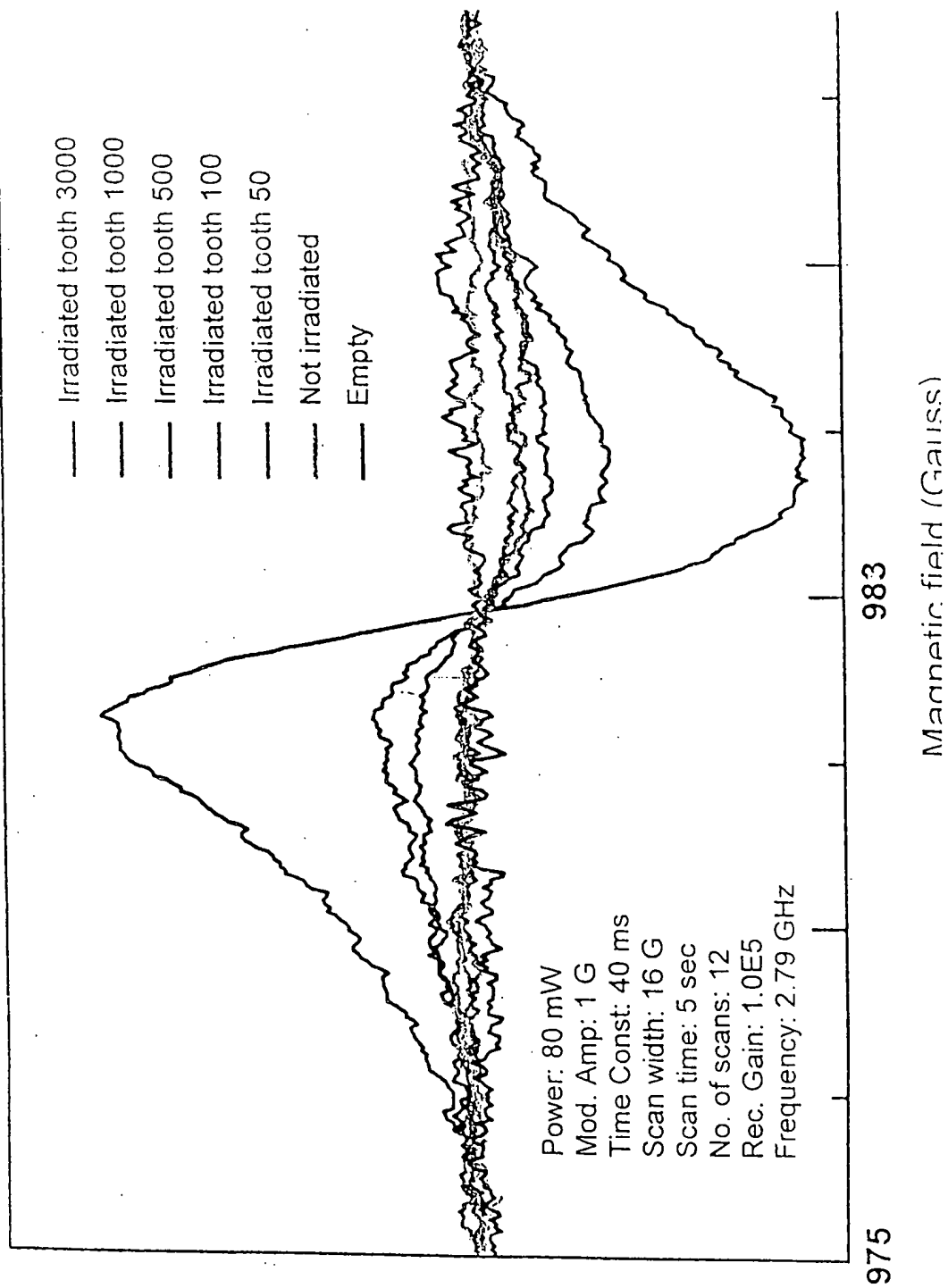
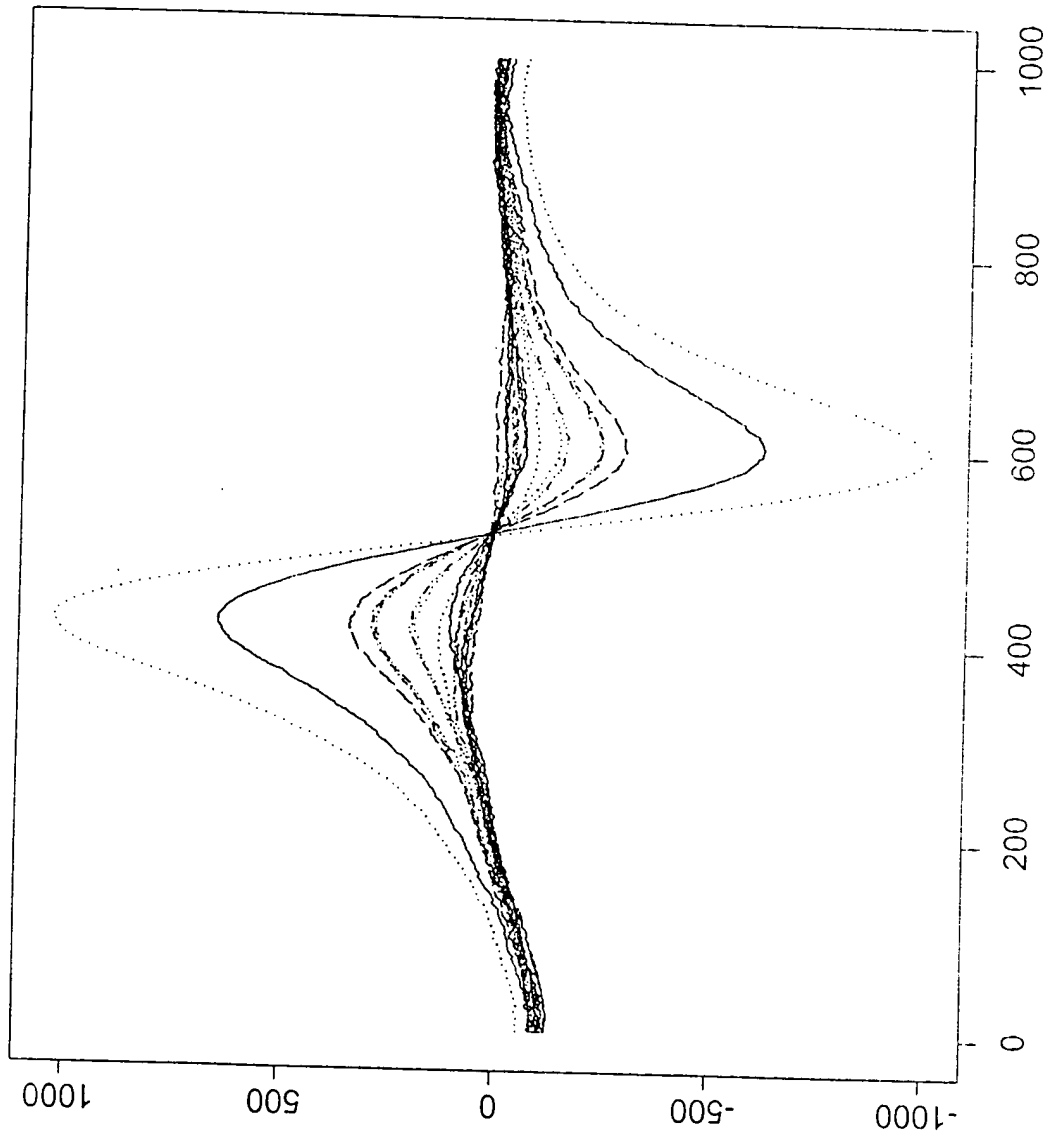


Fig. 8



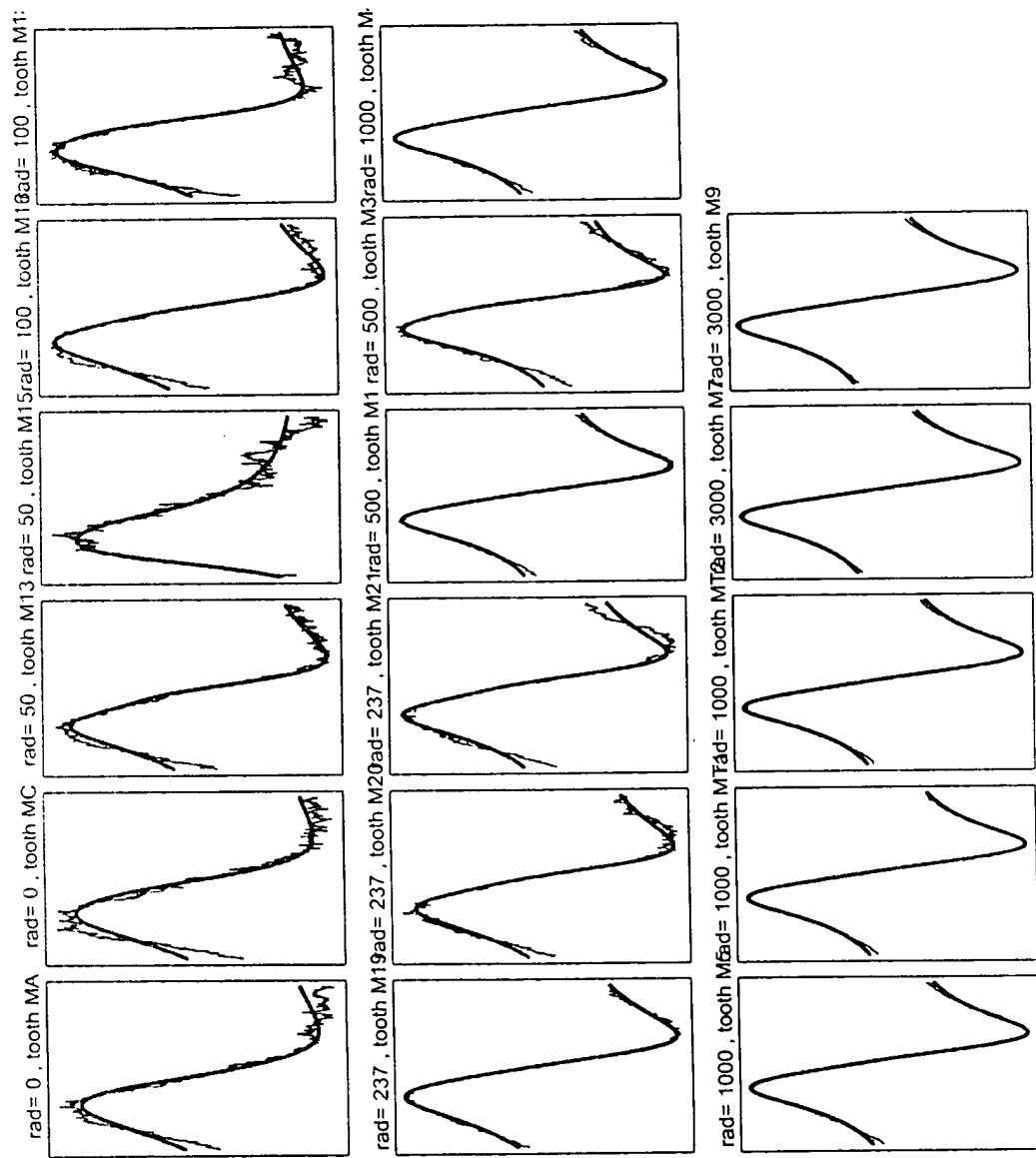


Fig. 9

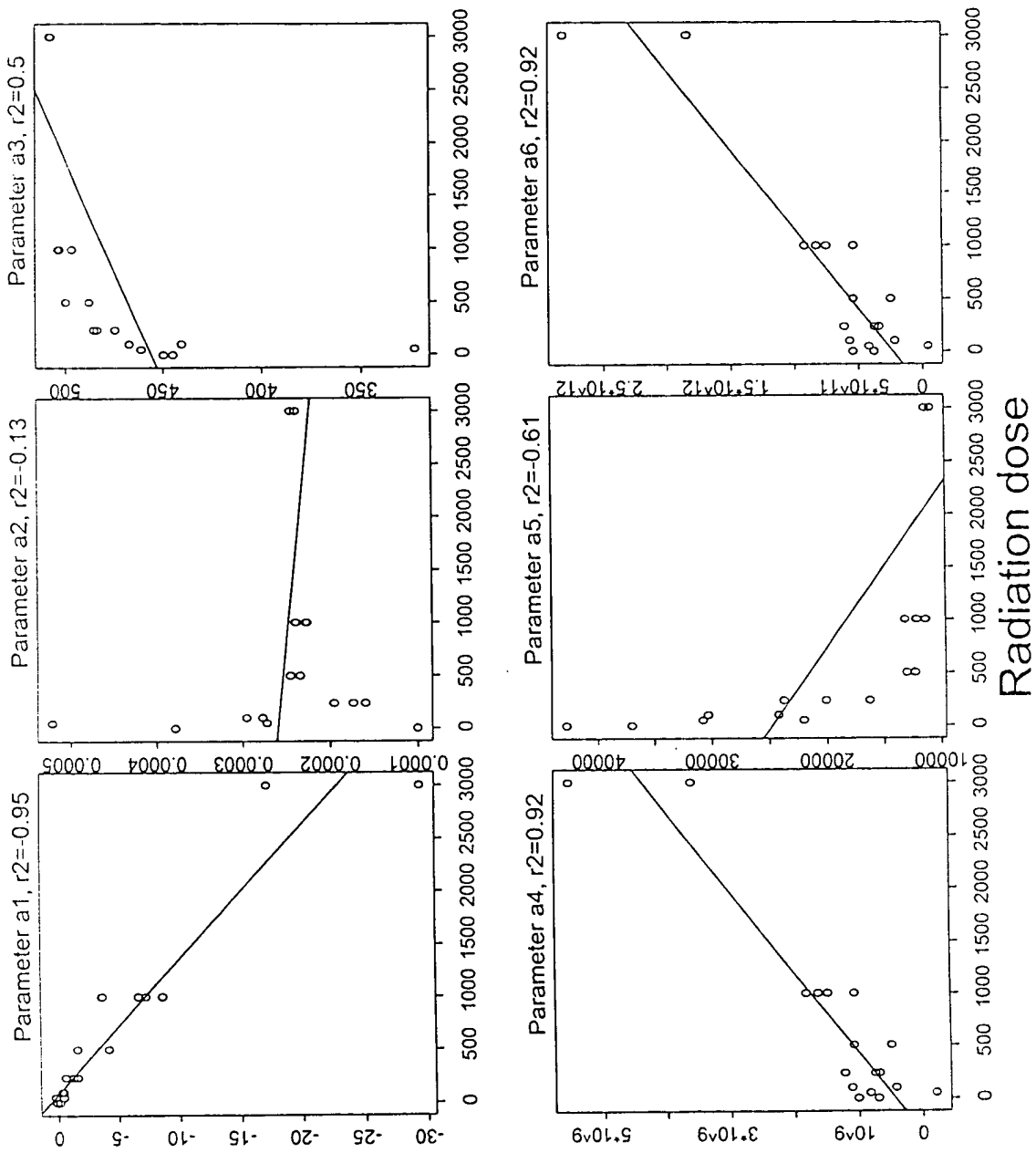


Fig. 10

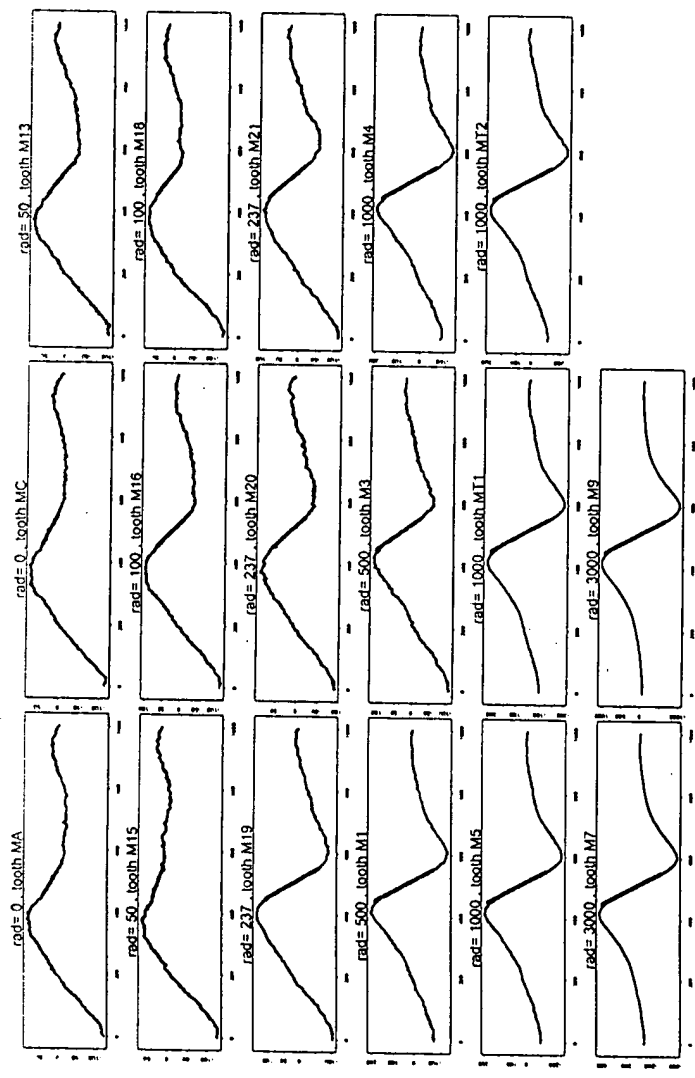


Fig. 11

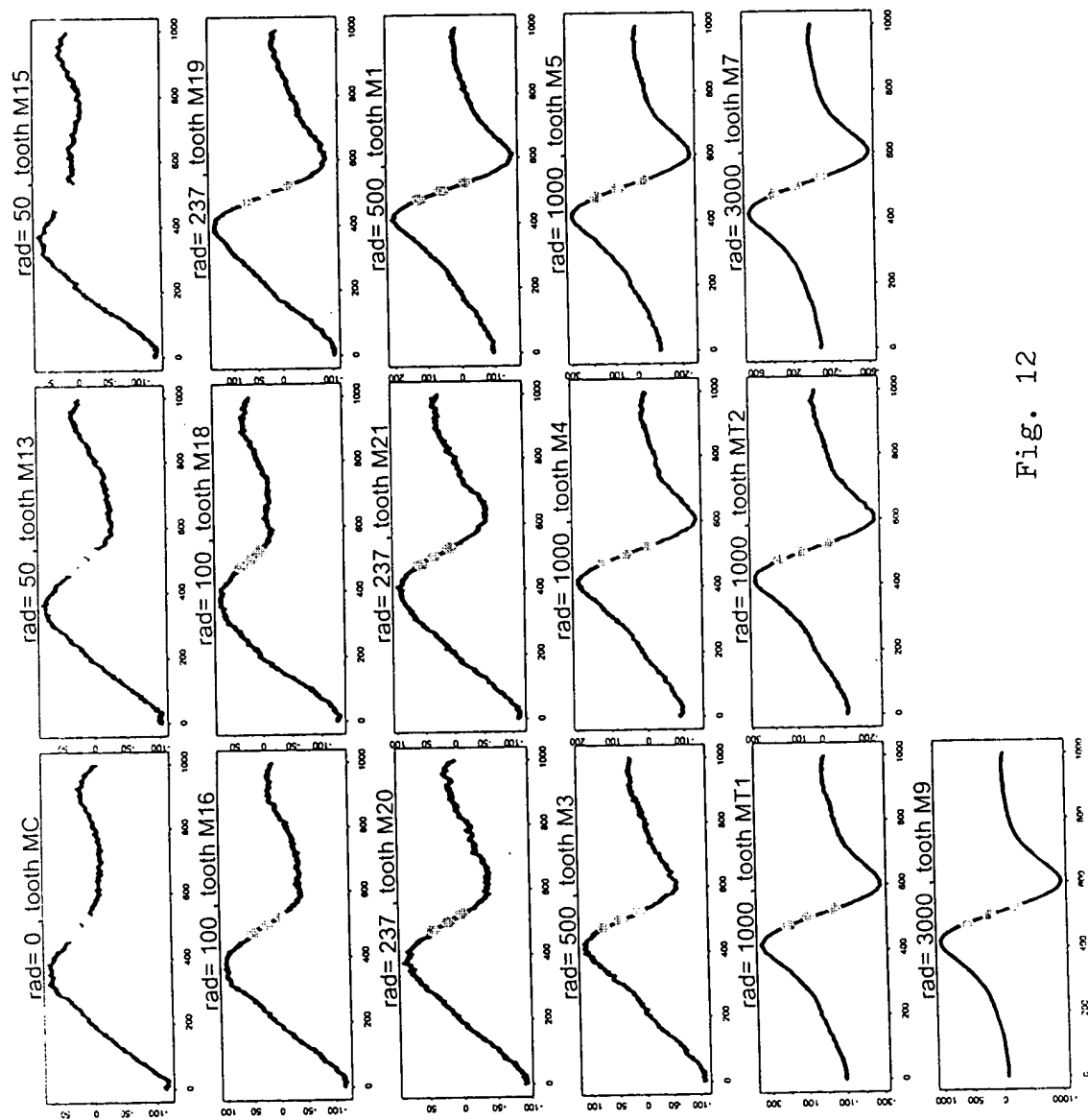


Fig. 12

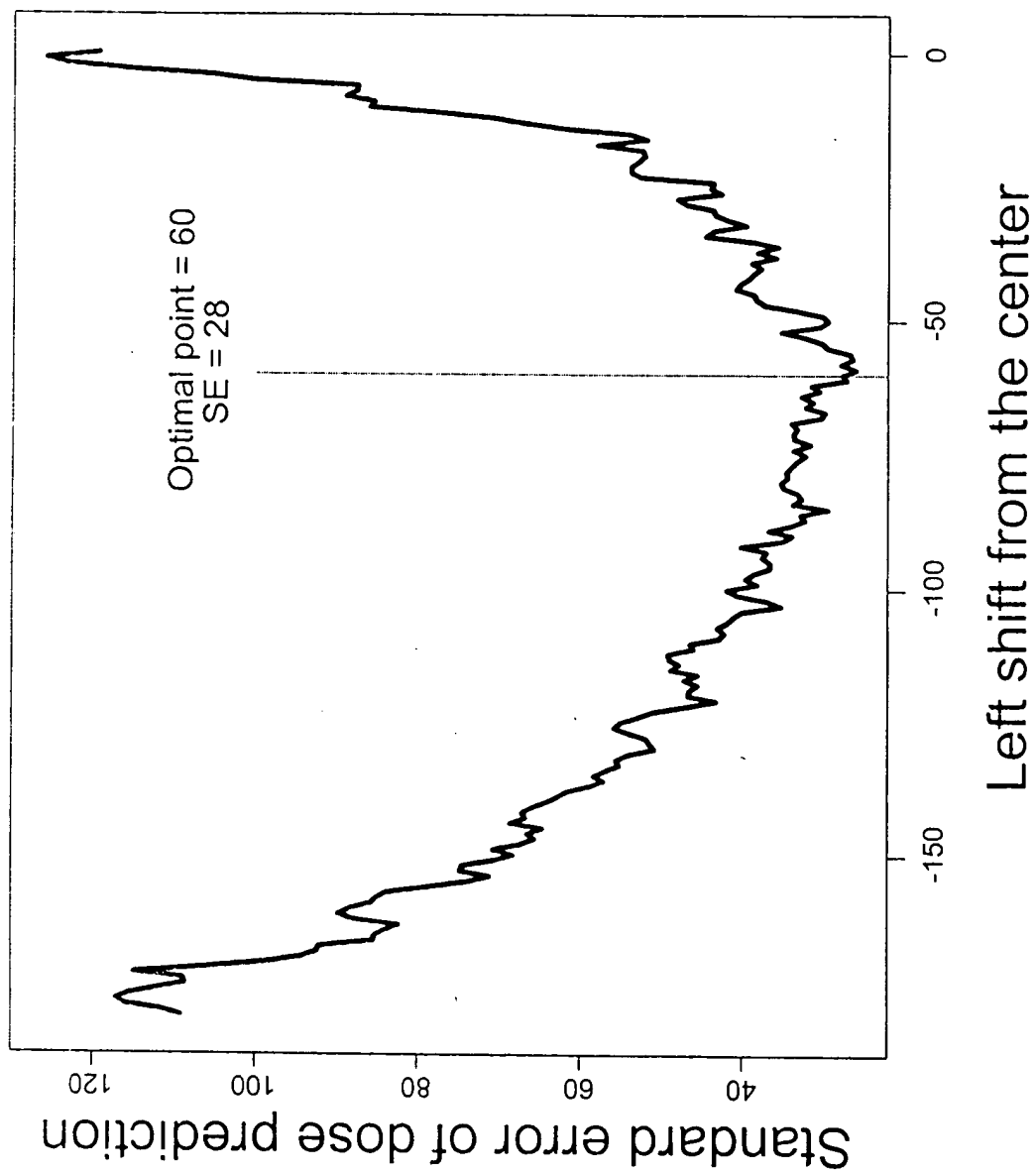


Fig. 13



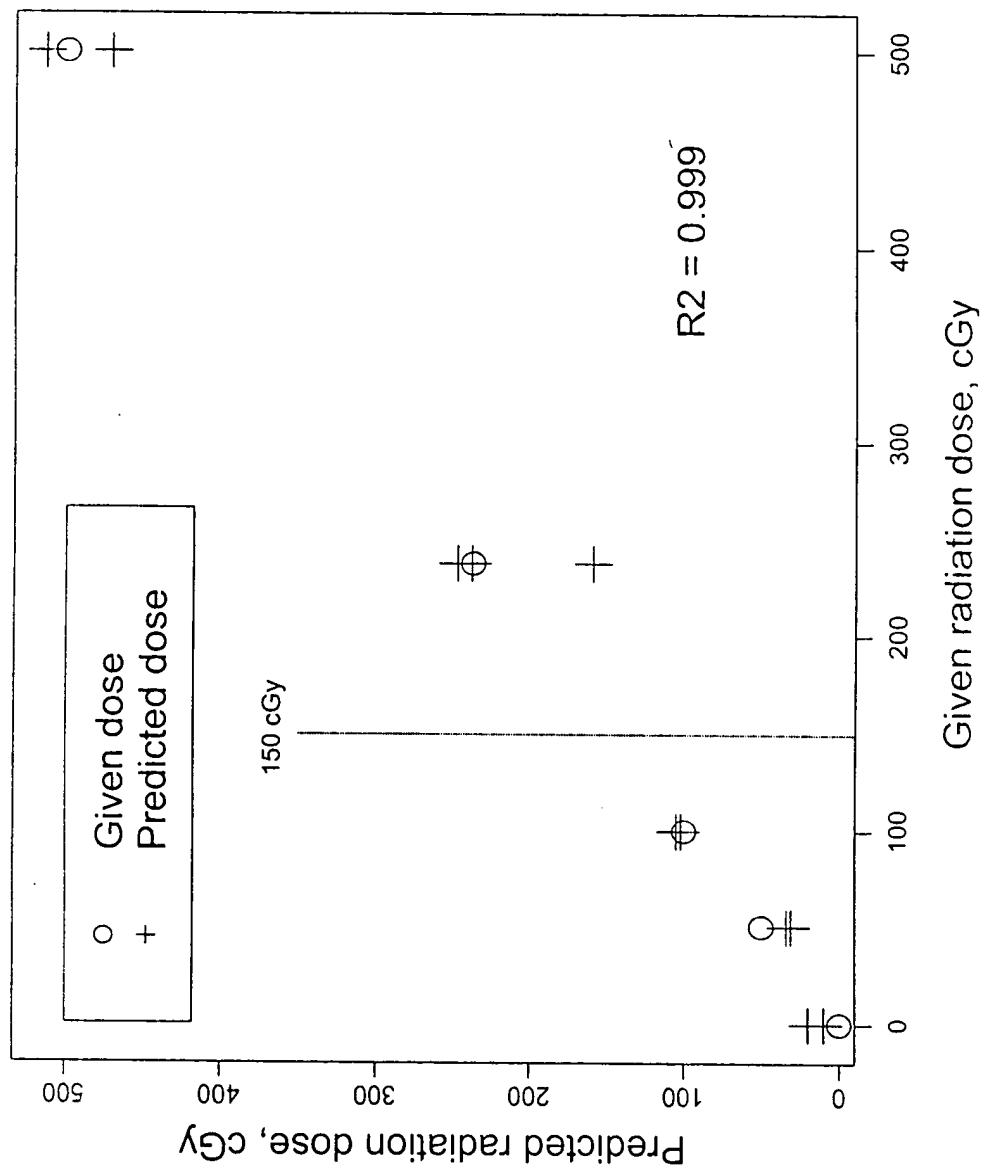


Fig. 14



Fig. 15A



Fig. 15C



Fig. 15B



Fig. 16A

Fig. 16C

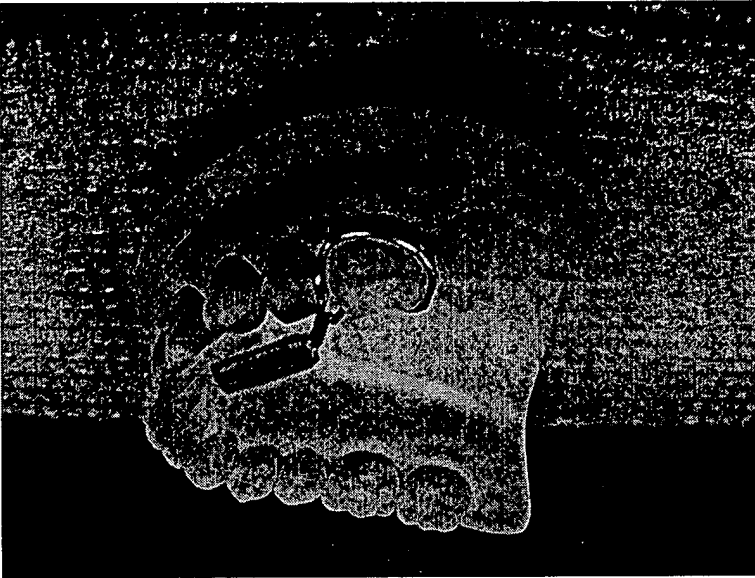


Fig. 16B



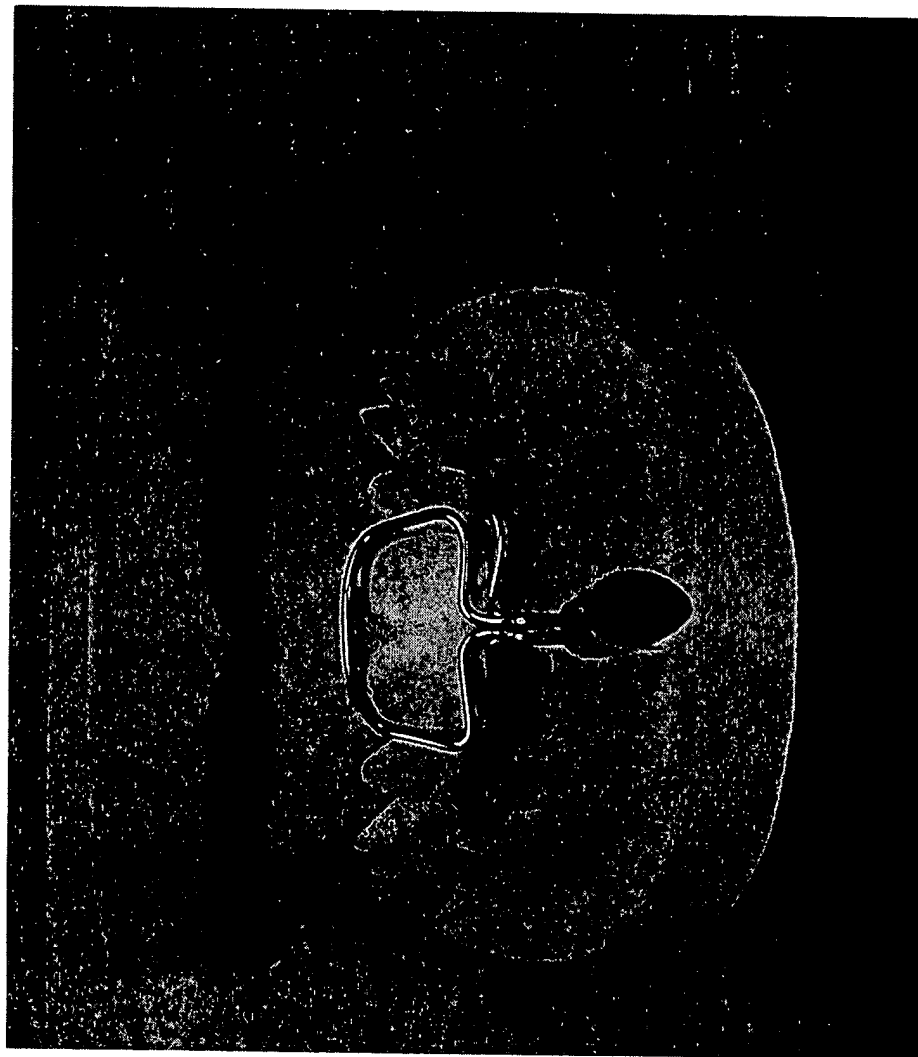


Fig. 17A

Fig. 17C

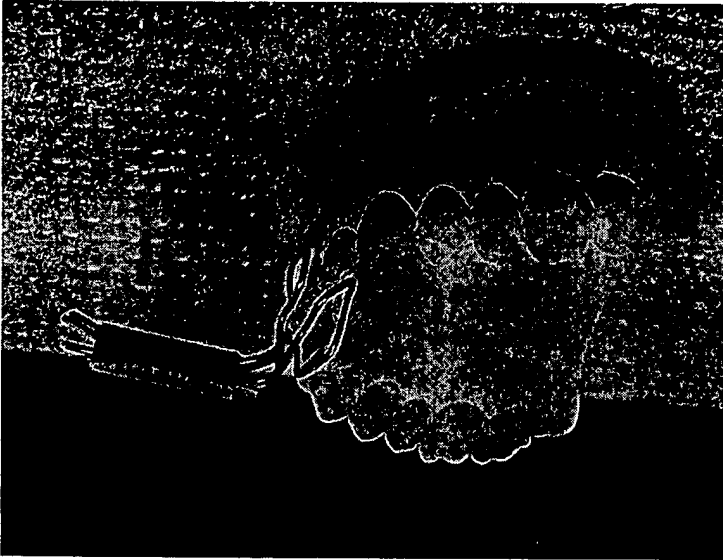
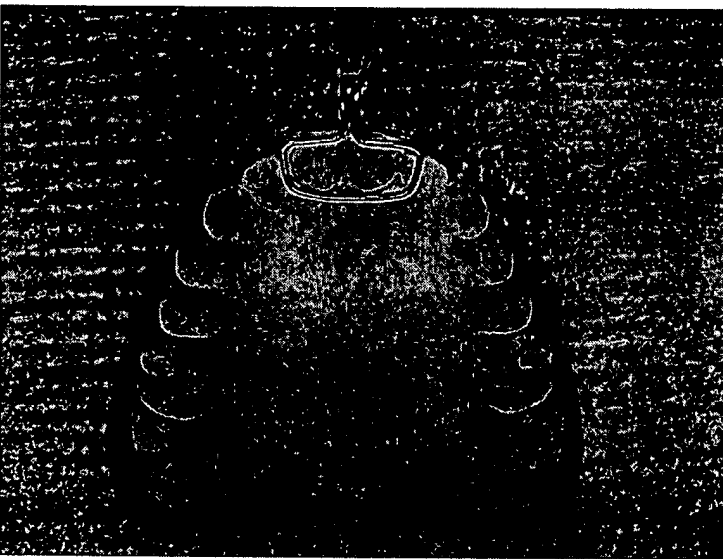


Fig. 17B



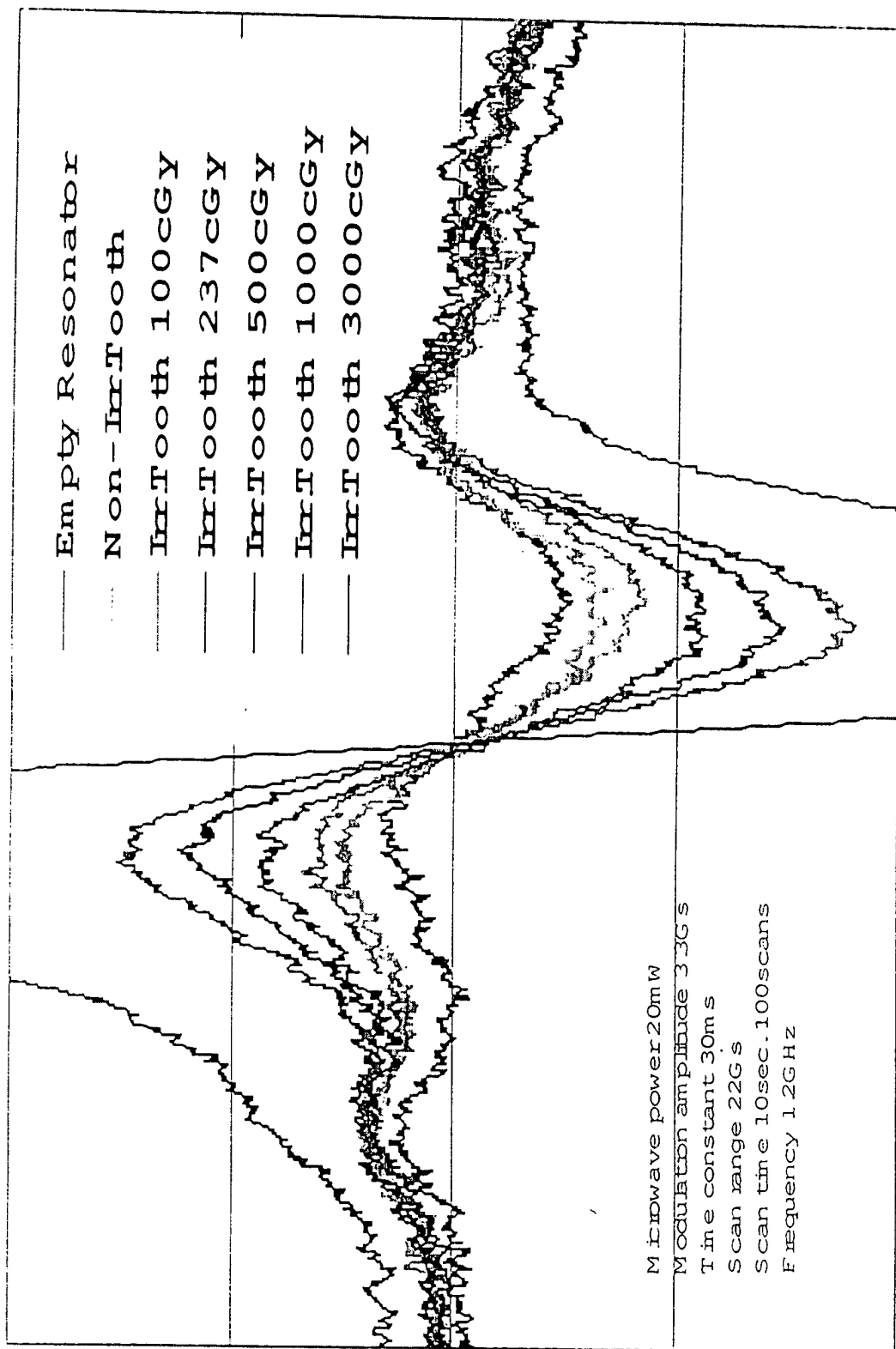


Fig. 18



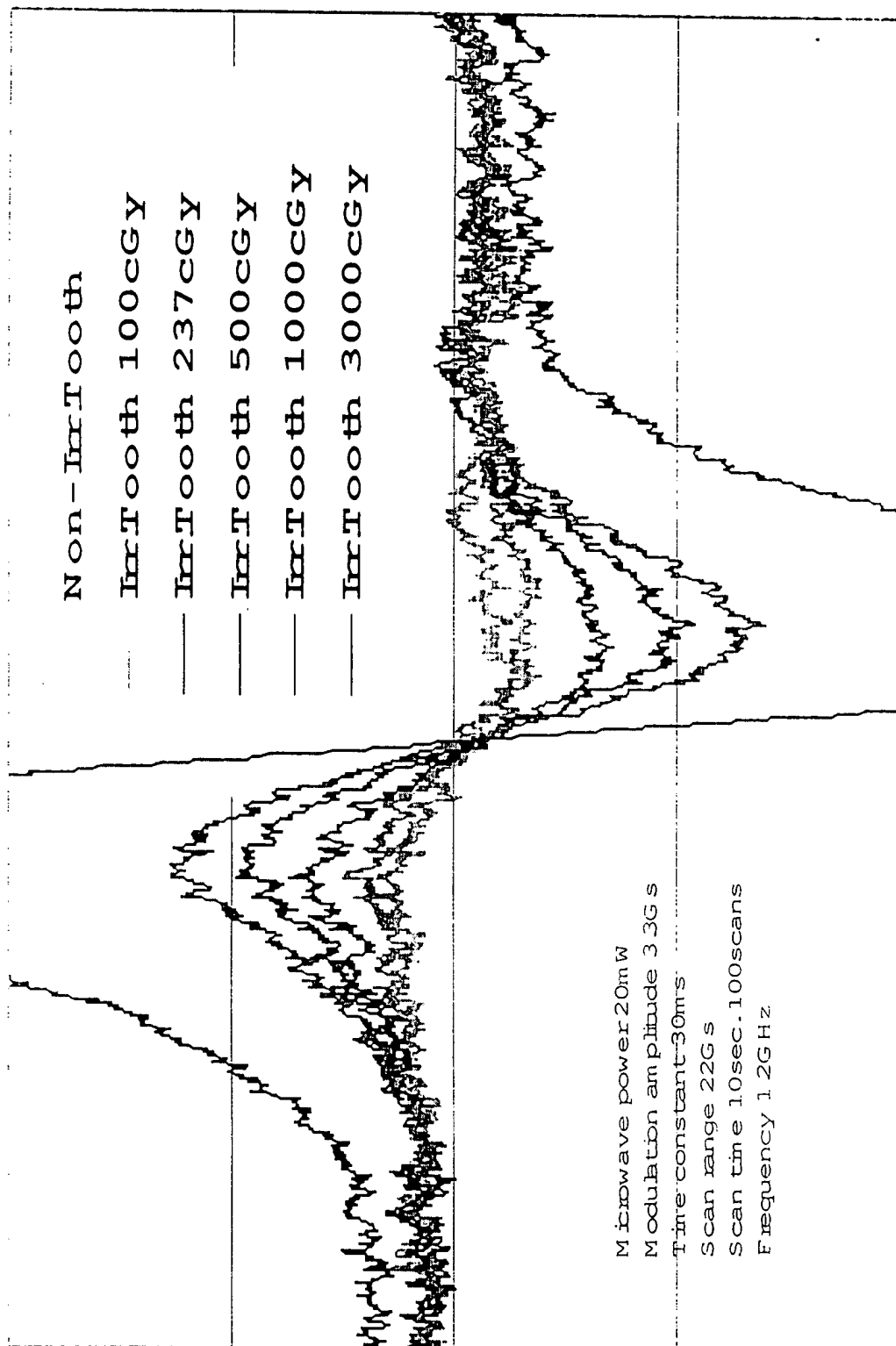


Fig. 19

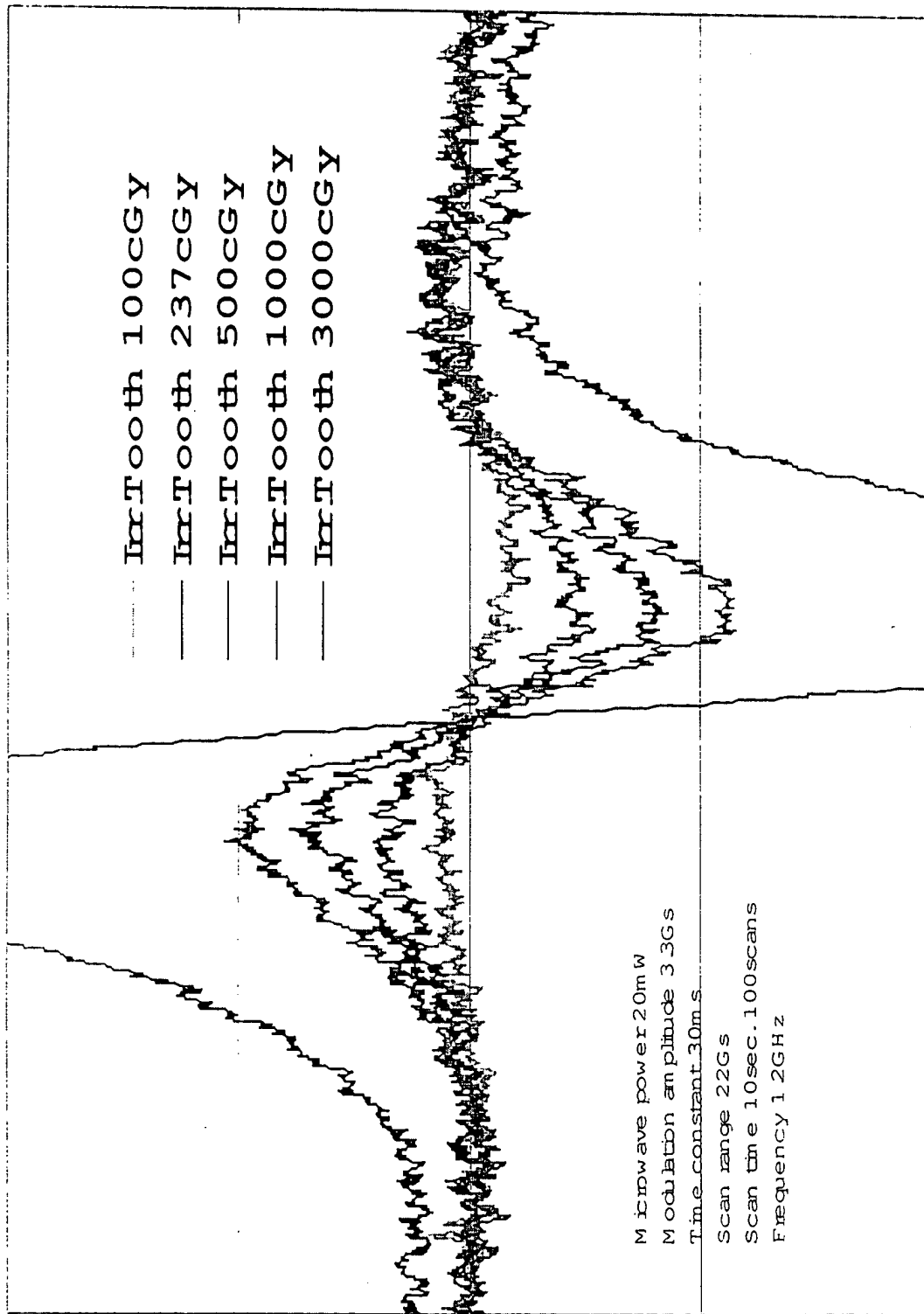


Fig. 20

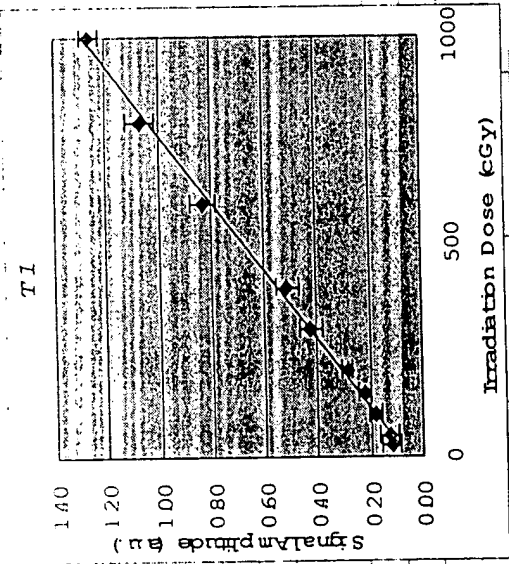


Fig. 21A

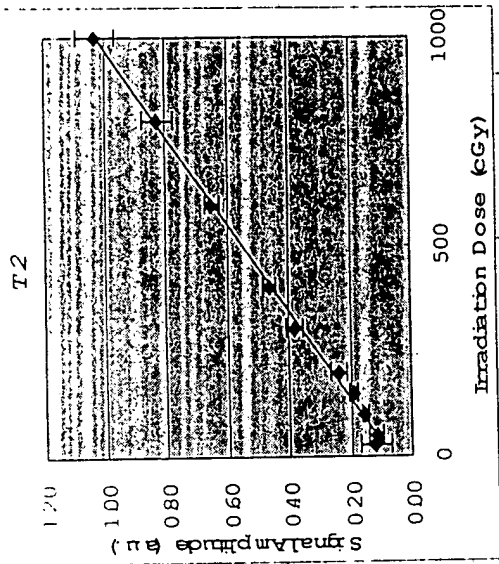


Fig. 21B

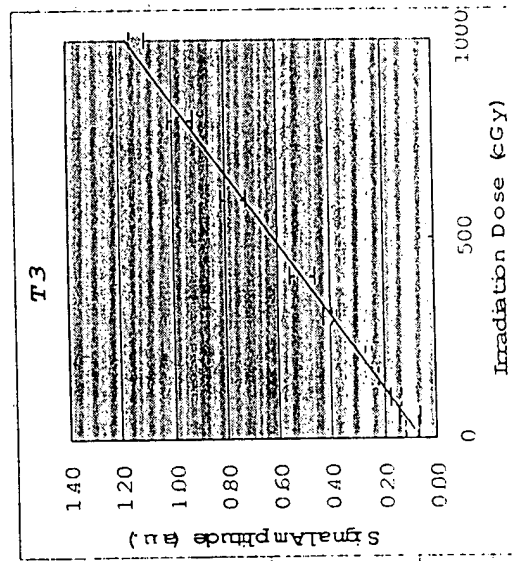


Fig. 21C

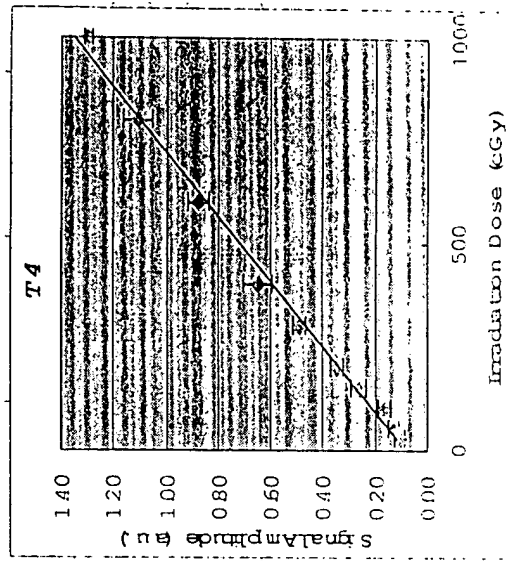


Fig. 21D

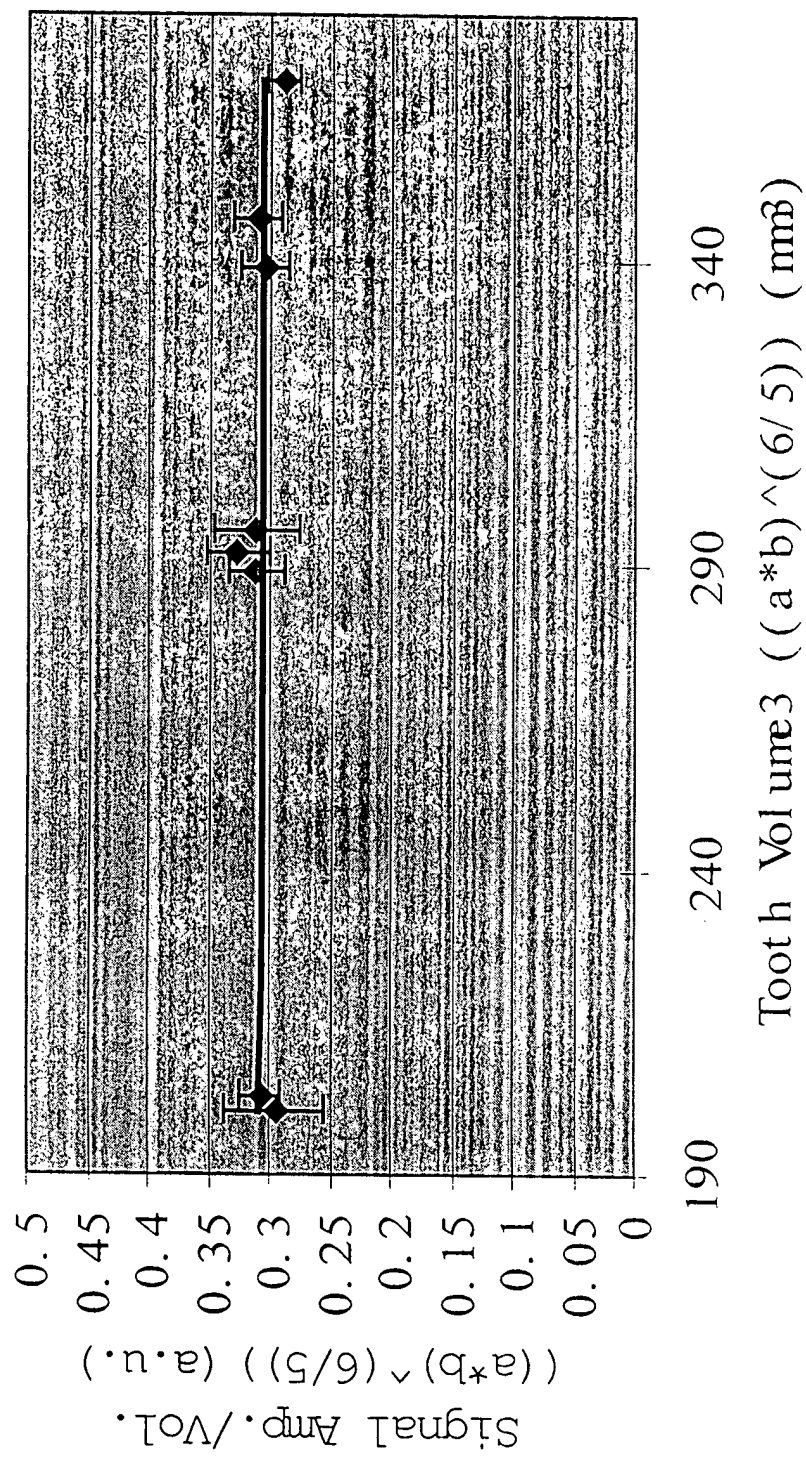


Fig. 22

Fig. 23A

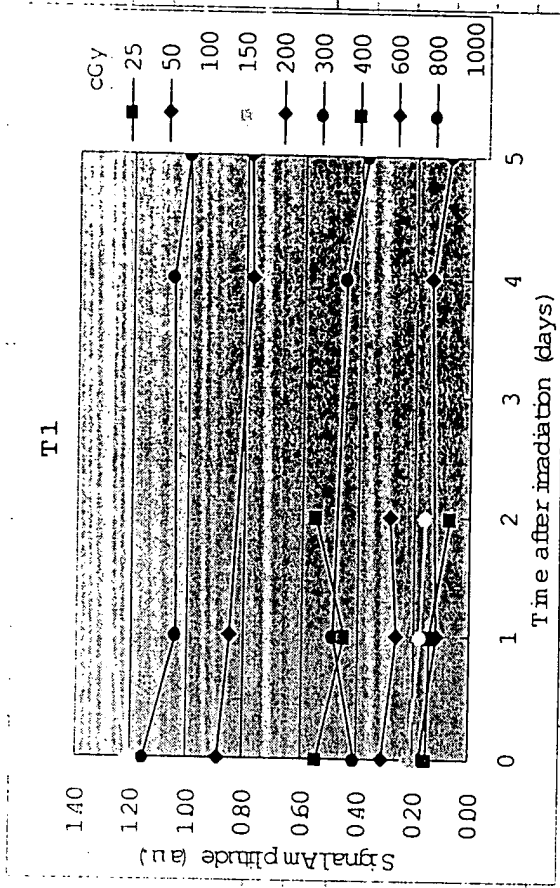
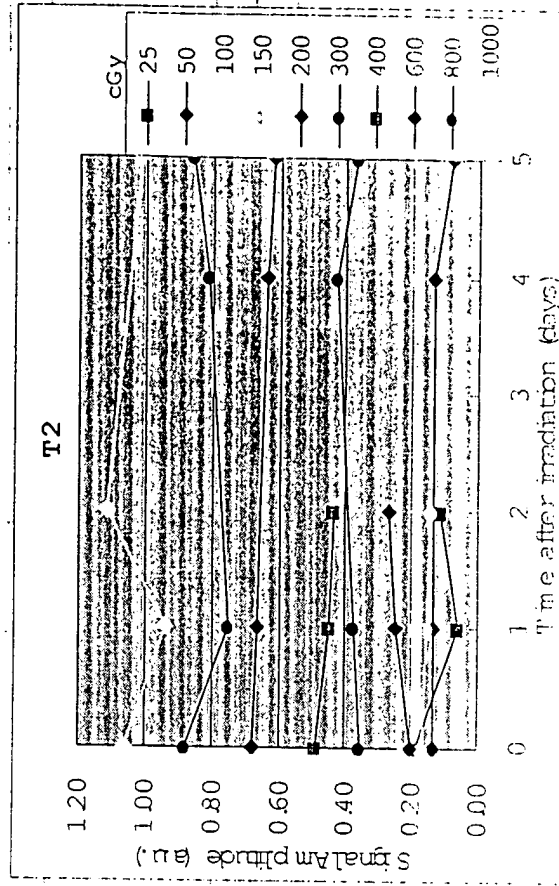


Fig. 23B



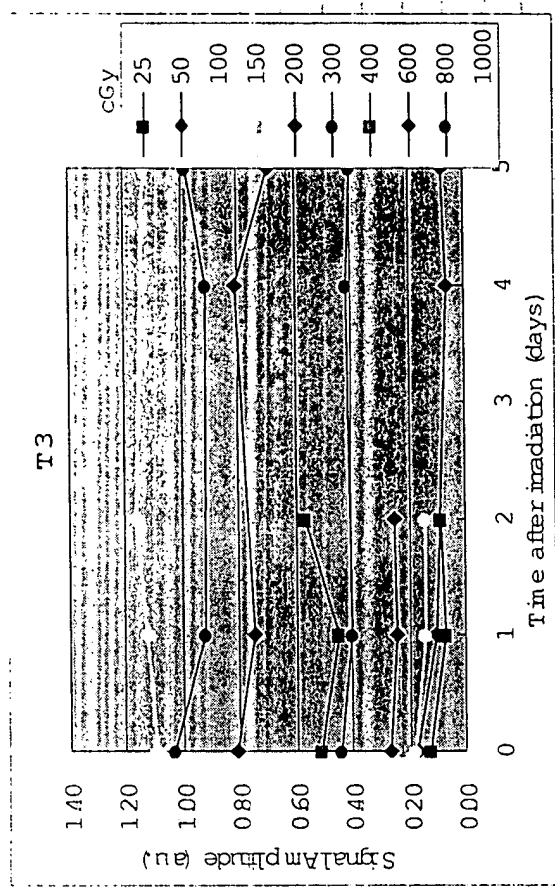


Fig. 23C

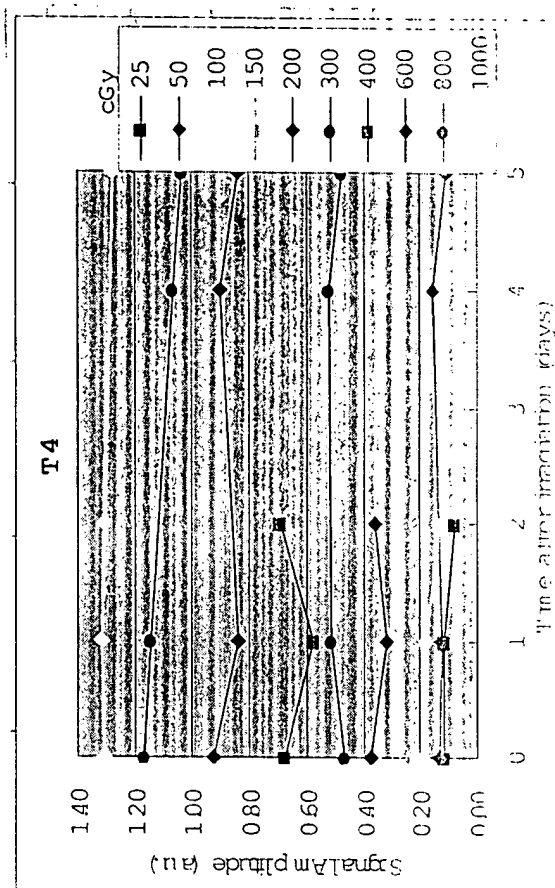


Fig. 23D

Fig. 24A

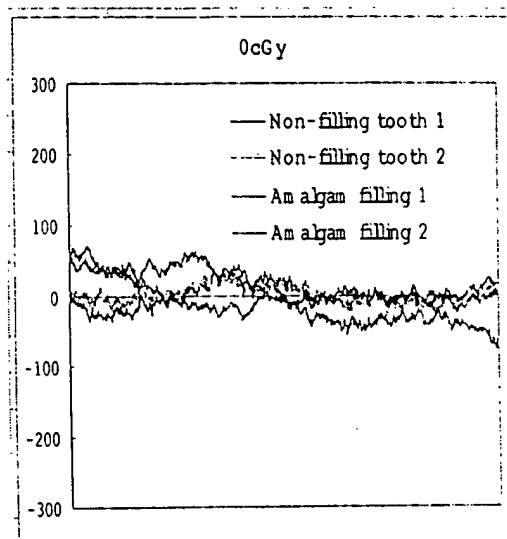


Fig. 24B

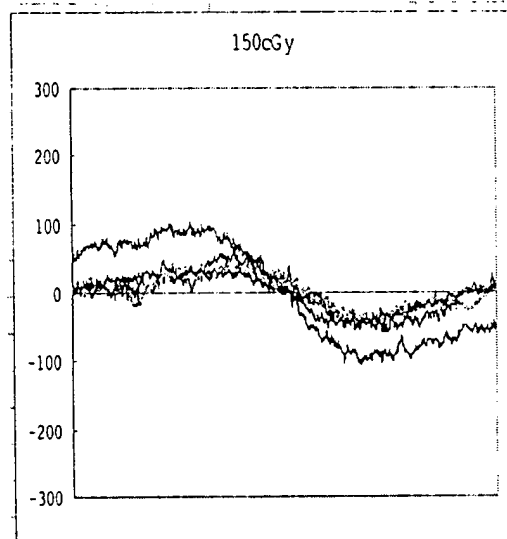


Fig. 24C

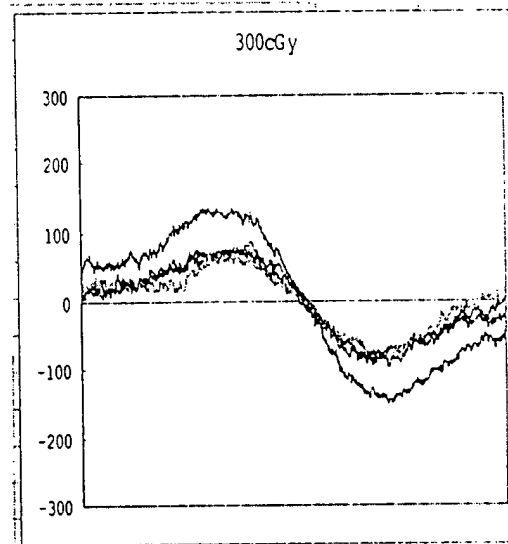


Fig. 24D

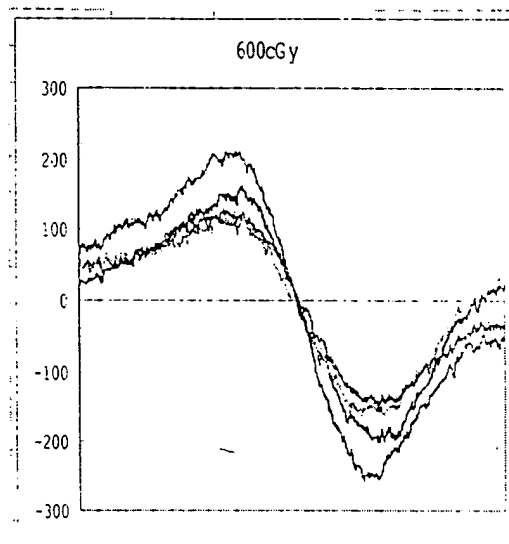
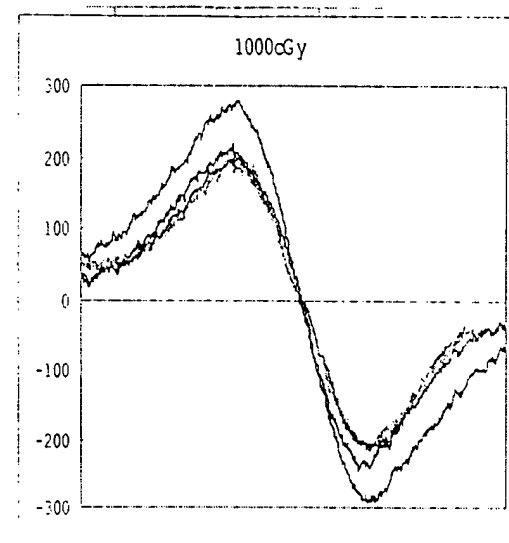


Fig. 24E





Critical Bridge

Microwave Power 0db

Modulation Amplitude 3.0Gs

Time Constant 30ms

Scan Range 20Gs

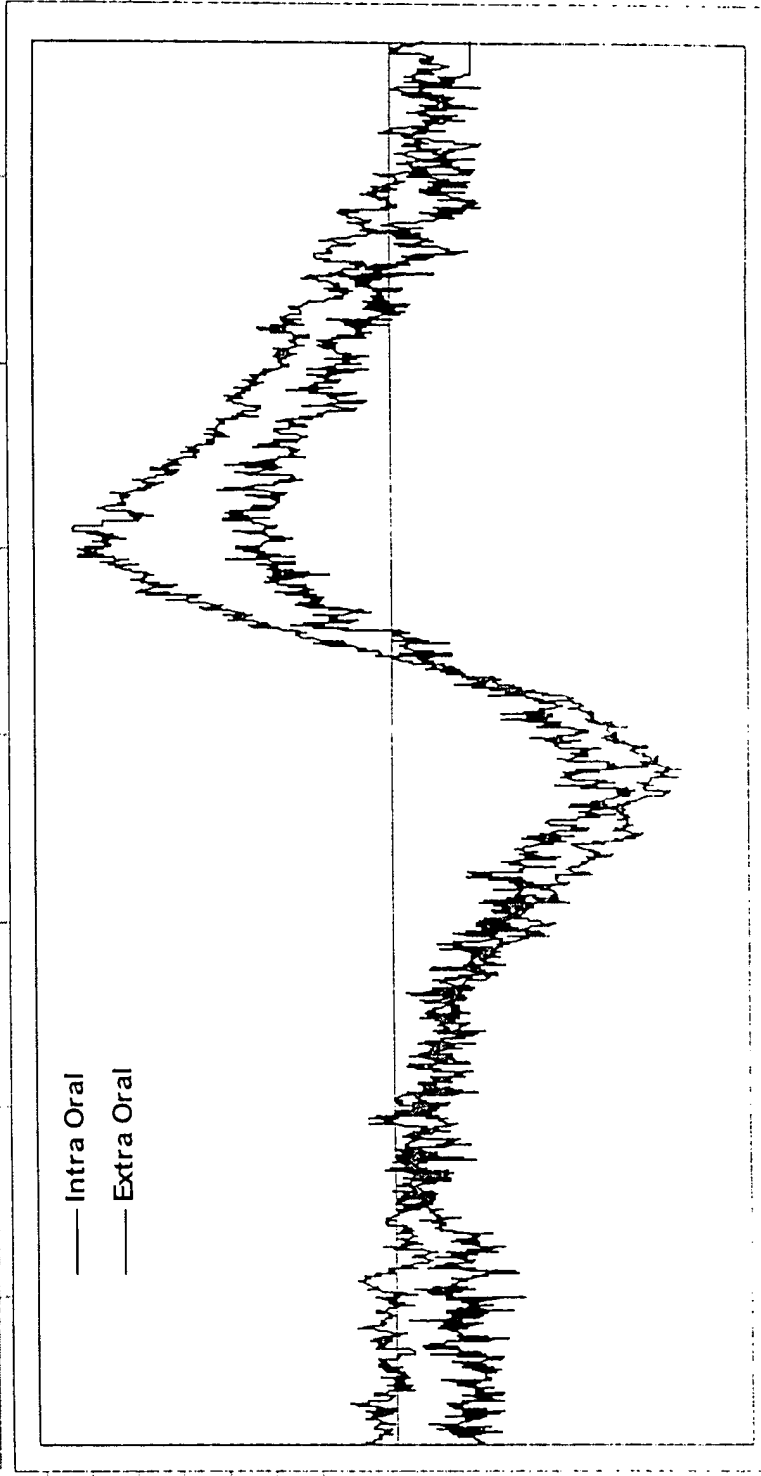
Scan Time 10sec.

Accumulation No. 8scans

Sample 3000cGy Irr. Tooth

Fig. 25

	Signal	Noise	S/N
Extra Oral	2.35	0.147	15.99
Intra Oral	1.47	0.216	6.81



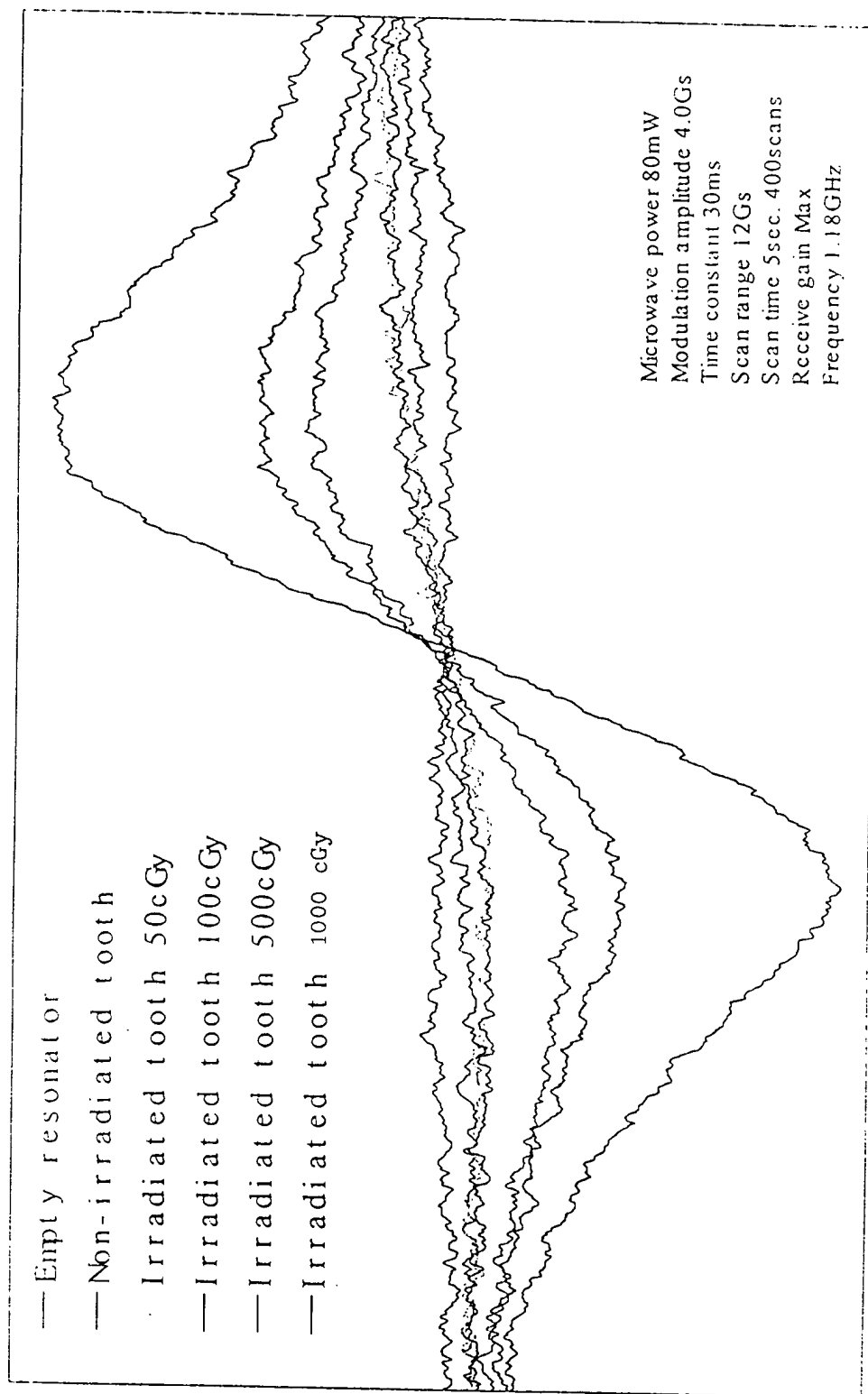


Fig. 26

	BW 1	BW 2	Q -factor 1	Q -factor 2	Q -factor Ave.	SD
OutOralEmpty Resonator	1.95	2.1	600.00	557.1	578.57	21.43
IntraoralLeft Side (Molar region)	4.6	5.7	254.35	205.3	229.81	24.54
IntraoralRight Side (Molar region)	5.1	8.9	229.41	131.5	180.44	48.98
IntraoralCenter	3.4	3.9	344.12	300.0	322.06	22.06
IntraoralCenter (Tongue pressed to the bop)	13.7	14.1	85.40	83.0	84.19	1.21

Fig. 27A

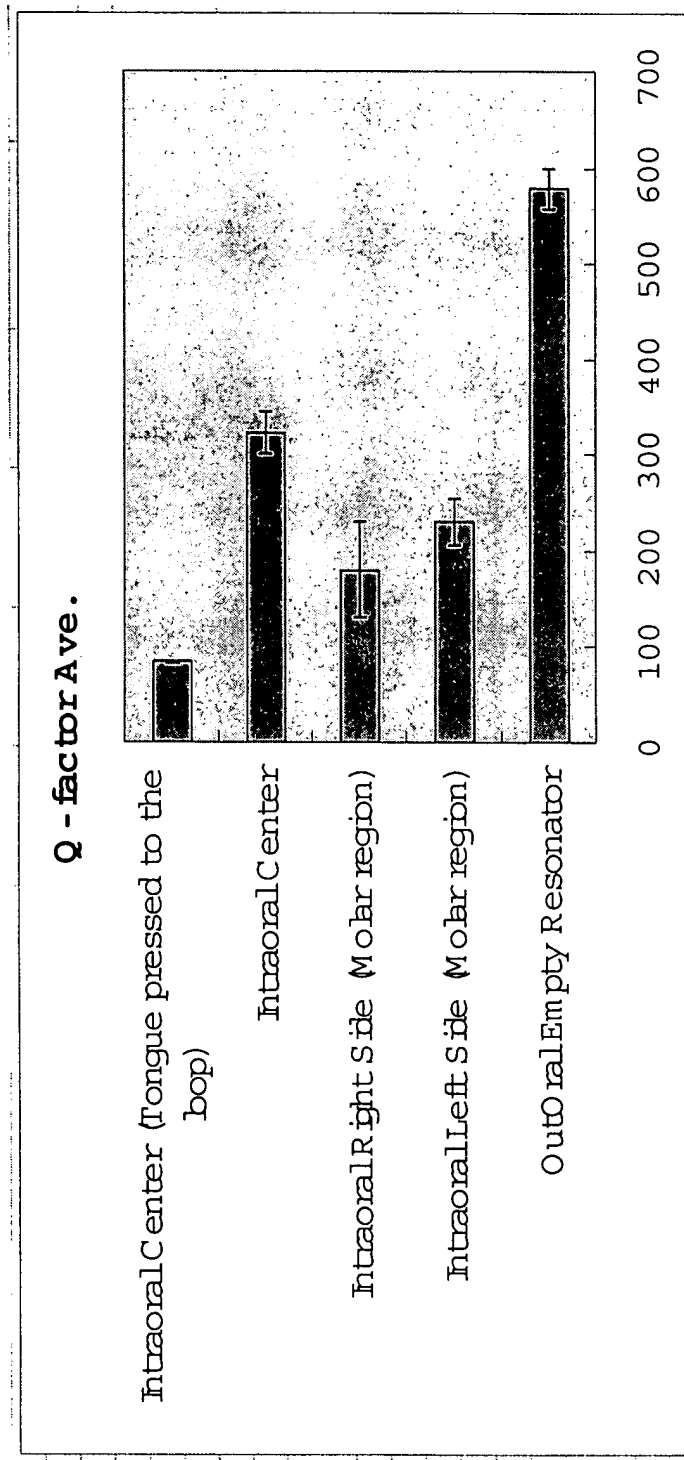


Fig. 27B

# Irradiated Tooth (3000 cGy)

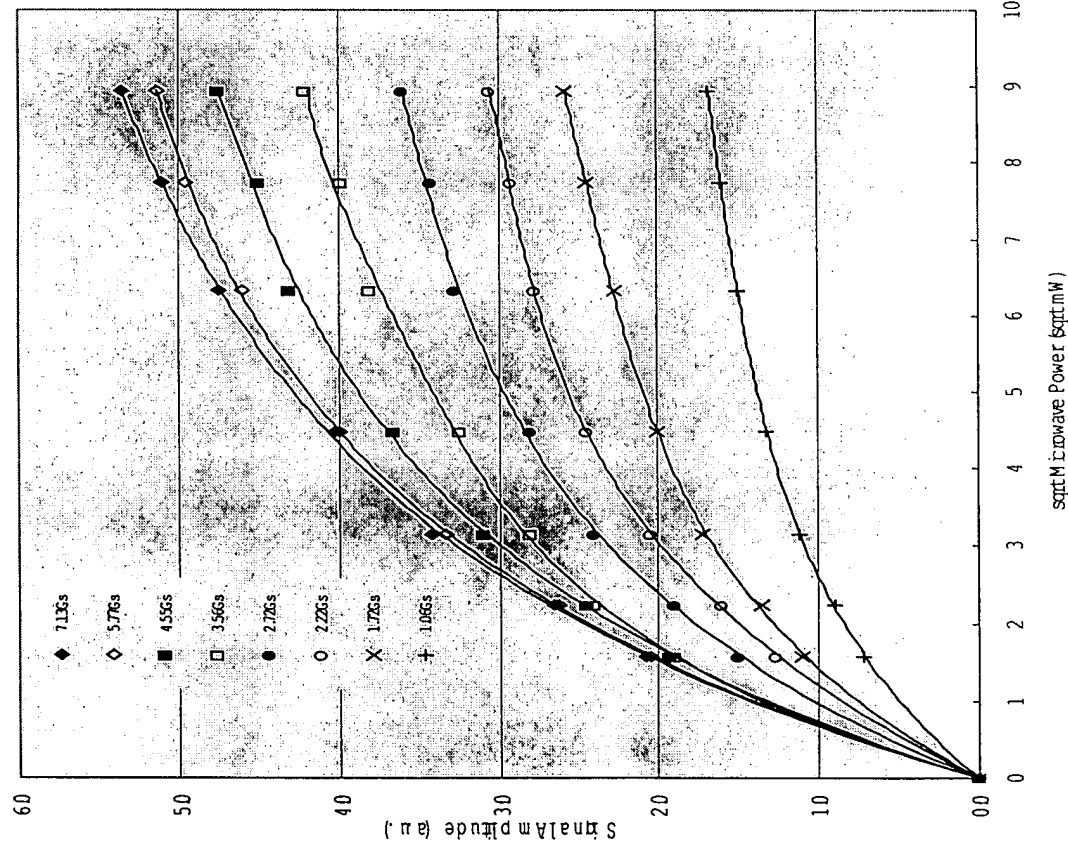


Fig. 28A

# Non-Irradiated Tooth

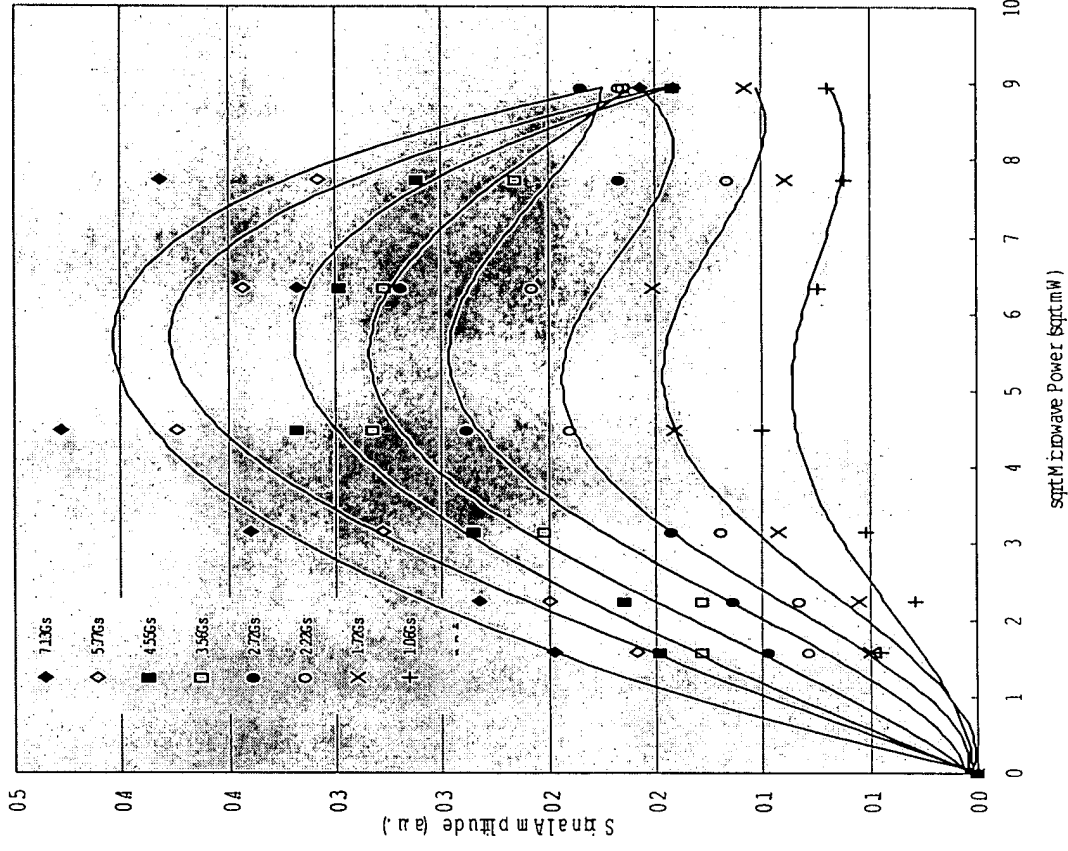


Fig. 28B

Fig. 29A

Normalized by tooth dimension (a\*b)

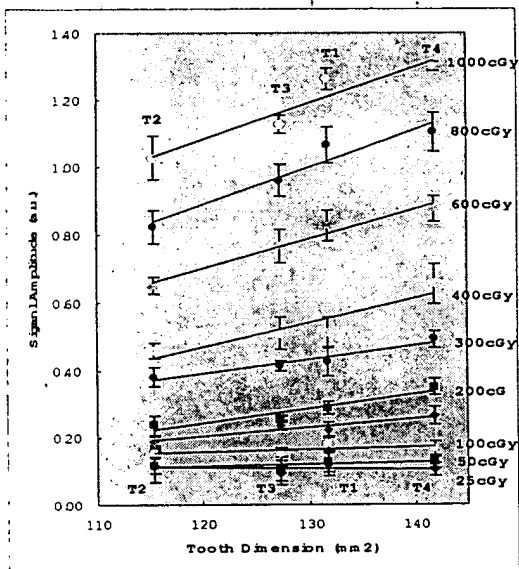
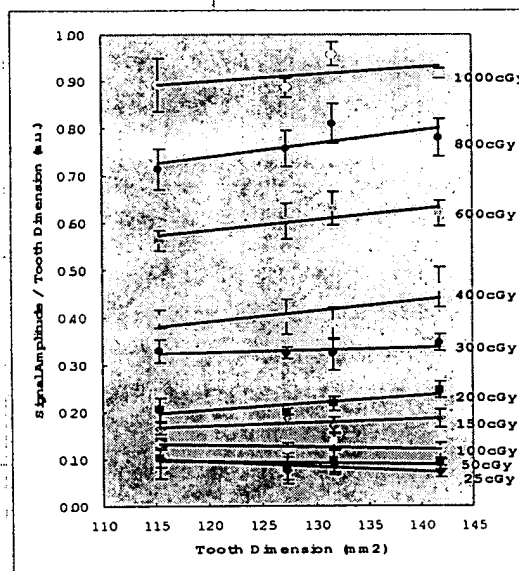


Fig. 29B



Normalized by  $(a*b)^{(6/5)}$

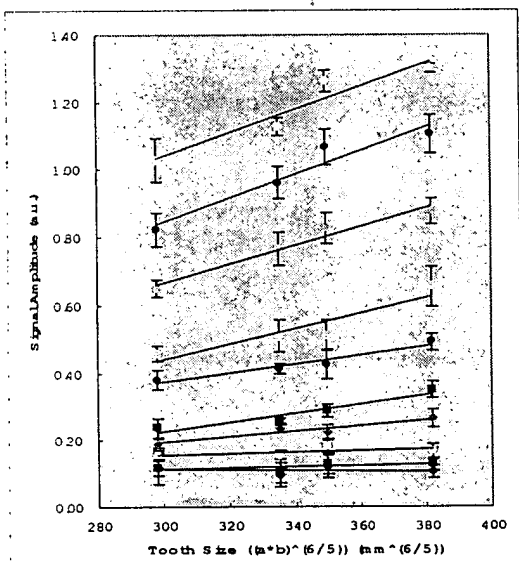


Fig. 29C

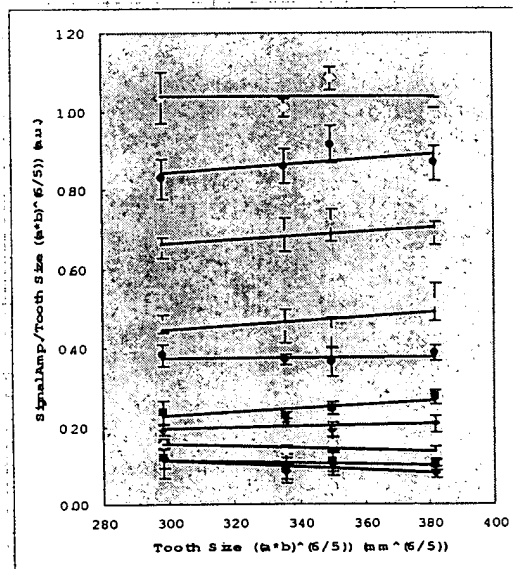


Fig. 29D

# EPR Spectra of Human Tooth at L-band

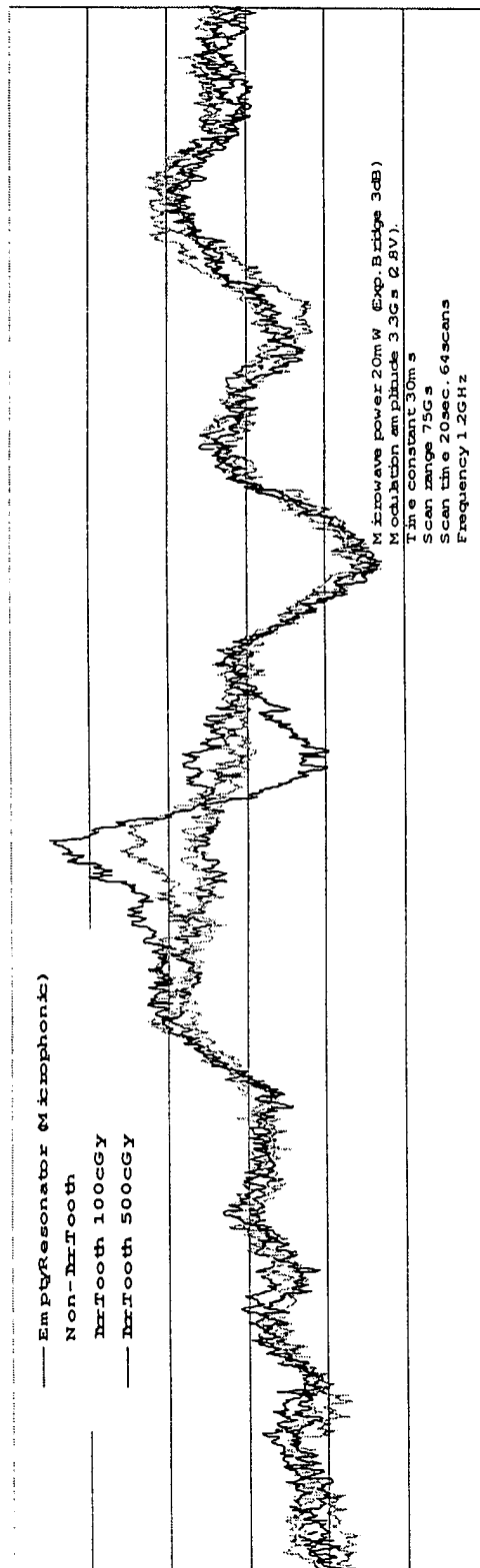


Fig. 30A

# EPR Spectra of Human Teeth at L-Band (After Subtraction)

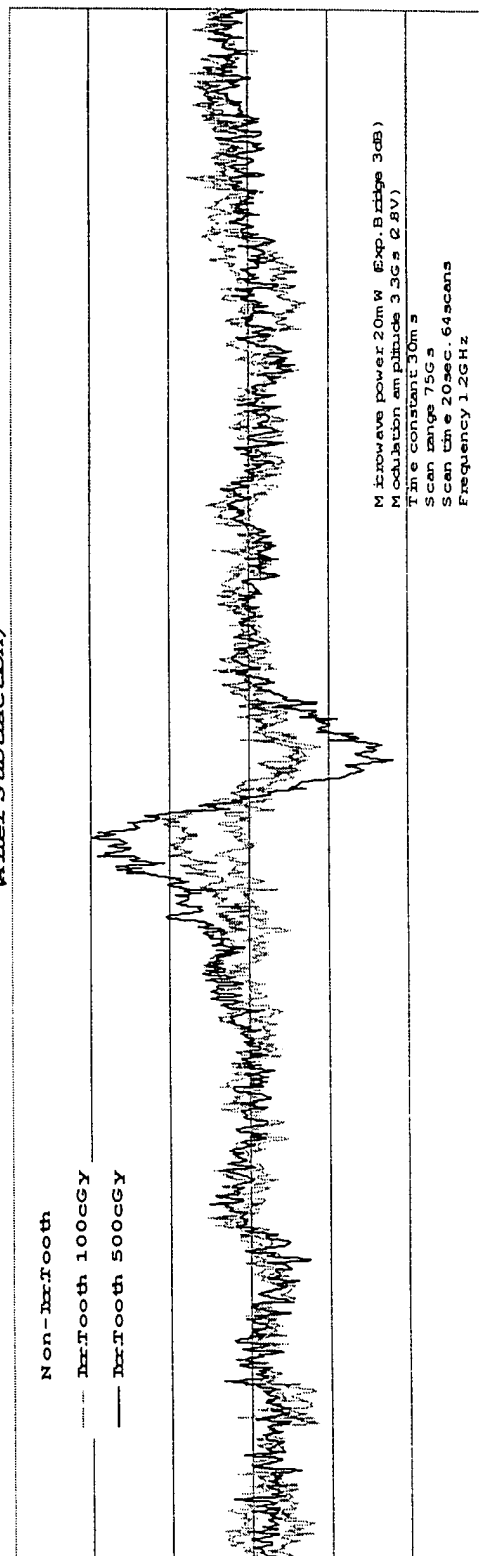


Fig. 30B

Fig. 31B

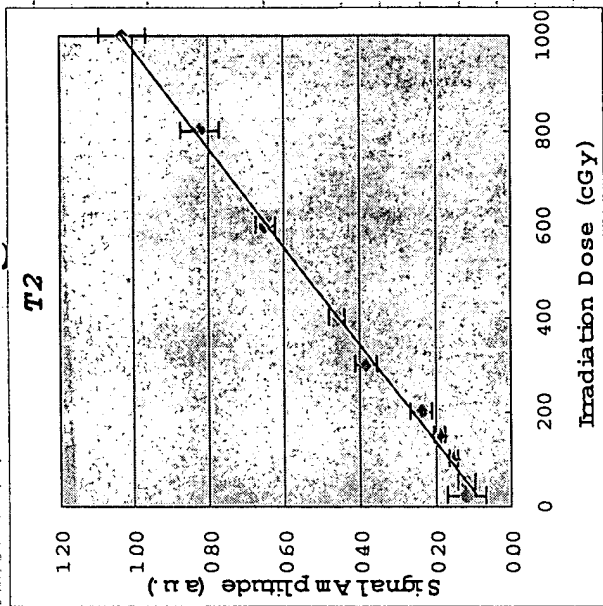


Fig. 31D

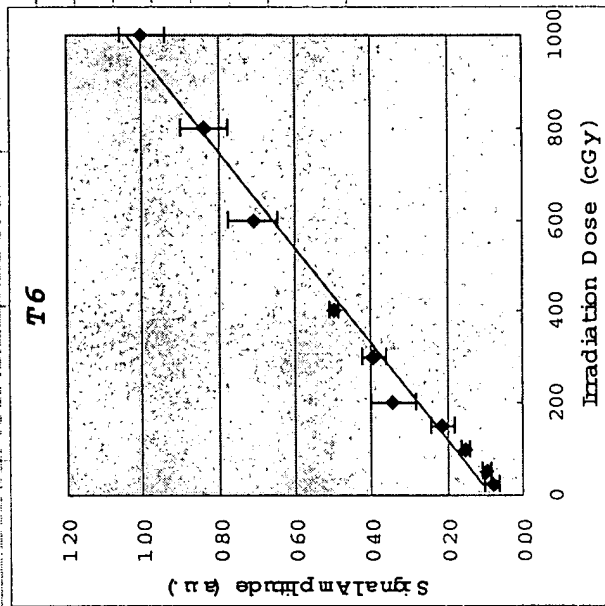


Fig. 31A

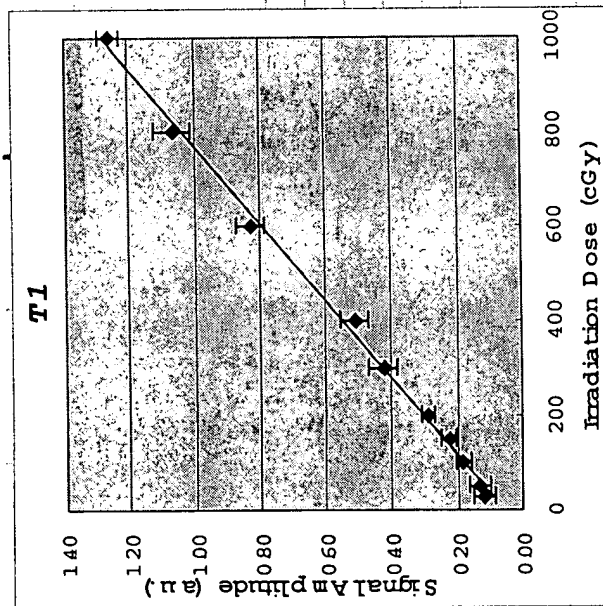


Fig. 31C

